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Storm Water Pollution Prevention Plan (SWPPP)

AIR LIQUIDE AMERICA COPORATION
Santa Fe Springs Fill Plant
Santa Fe Springs, California

**April**, 2002

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# 1.0 INTRODUCTION

#### 1.1 General Information

Operator Name:

Air Liquide America Corp.

Physical Address:

8832 Dice Rd

Santa Fe Springs, CA 90670

Mailing Address:

8832 Dice Rd

Santa Fe Springs, CA 90670

Telephone:

562-945-1383

Facsimile:

562-693-1156

Latitude:

33° 57' 35" N

Longitude:

118° 3' 56" W

Owner Name:

Air Liquide America Corp.

P.O. Box 3047

Houston, Texas 77253

**Authorized Signatory:** 

FOIA ex 6, Personal Privacy

Plant Manager 562-693-1156

**Primary Contact/** 

Authorized Representative: 1)

FOIA ex 6, Personal Privacy

Privacy Title:

Plant Engineer

Work Phone:

562-464-5241

Mobile Phone:

FOIA ex 6,

Home Phone:

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Type of Business:

Industrial gas cylinder filling and bulk material handling

for industrial customers.

Standard Industrial

Classification Code:

2813

Operating Schedule:

Day and Swing Shift, 5 days/week

Receiving Streams for

Storm Water:

Sorenson Avenue Creek

CA State Water Resources Board

Permit Number:

CAS000001

Note: This plan is to be updated every time there is a personnel or contact change that will materially affect the Plan and recorded in Appendix H.

#### 1.2 Regulatory Considerations

Storm water runoff, a natural component of the hydrologic cycle, has increasingly been identified as a significant source of surface water pollution. Human activities, industrial operations and other developments can alter the natural drainage patterns and introduce pollutants to storm water that eventually enter streams, rivers, lakes, wetlands, and coastal waters.

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared to meet the requirements of the National Pollutant Discharge Elimination System (NPDES) Multi-Sector Storm Water Permitting Program (MGSP) under the provisions of the Federal Clean Water Act. This SWPPP has been developed in accordance with the Code of Federal Regulations outlining Storm Water discharges from industrial activity, 40 CFR 122.26(b)(14).

The facility is required to conduct monthly visual inspections and two analytical samples during the wet season annually of potential pollutant sources in accordance to Sector Cof the NFDES MSGP.

State of Cal Armia Water Resource Board

The U.S. EPA and California requires certification under the NPDES MSGP for compliance with the Endangered Species Act and the National Historic Preservation Act as shown in the Notice of intent (NOI). The following endangered species are located in Los Angeles County:

- El Segundo Blue Butterfly
- Palos Verdes Blue Butterfly

Mohave Tui Chub

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- Southern Steelhead
- Tidewater Goby
- Unarmored Threespine Stickleback
- Arroyo Toad
- California Condor
- California Least Tern
- Least Bell's Vireo
- San Clemente Loggerhead Shrike
- Pacific Pocket Mouse

The ALAC Santa Fe Springs Plant has implemented Best Management Practices to prevent any adverse affect on the endangered species listed above (see Section 4.0 of this Plan).

Discharges of storm water from the ALAC Santa Fe Springs Plant and the implementation of BMP's to control storm water runoff are not likely and will not likely have an adverse affect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act. Because of this, the ALAC Santa Fe Springs Plant is in compliance with the National Historic Preservation Act.

#### 1.3 Purpose and Objectives

The purpose of this SWPPP is to provide a guidance document for ALAC Santa Fe Springs Plant personnel for the interpretation of certain storm water management practices that will prevent and/or minimize pollution releases through storm water runoff at the facility. The EPA/State NPDES MGSP requires the development of a SWPPP for each facility covered by the permit, including the following provisions:

- (1) the SWPPP must be prepared in accordance with good engineering practices;
- (2) the SWPPP must identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity;
- (3) the SWPPP must describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity; and
- (4) the SWPPP must assure compliance with the terms and conditions of the NPDES MGSP.

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#### 1.4 Pollution Prevention Plan

This SWPPP provides guidance for ALAC Santa Fe Springs Plant personnel to implement, monitor and maintain storm water runoff control systems for minimization of polluted storm water discharges from ALAC Santa Fe Springs Plant. Consistent with the Sector C of the NPDES MSGP the SWPPP is organized in the following manner.

- Section 1.0 provides general information of the ALAC Santa Fe Springs Plant.
- Section 2.0 identifies the ALAC Santa Fe Springs Plant personnel responsible for the implementation and maintenance of the SWPPP and describes their duties and responsibilities.
- Section 3.0 provides the description of potential pollutant sources including site
  maps, inventory of significant exposed raw materials, past spills and leaks, existing
  monitoring data, and risk identification and summary of potential pollutant sources.
- Section 4.0 identifies and presents details of the measures and controls (e.g., Best Management Practices (BMPs) that are selected for implementation at the facility in order to manage and control storm water discharges, runoff management, sediment and erosion control, non-storm water discharges.
- Section 5.0 discusses the monitoring and reporting requirements.
- Section 6.0 presents guidance for evaluating the certification of the SWPPP and inspecting the ALAC Santa Fe Springs Plant for accuracy with the SWPPP.
- Section 7.0 provides the availability of the SWPPP.
- Section 8.0 presents the certification (signature) of the SWPPP.
- Section 9.0 presents ALAC Santa Fe Springs Plant personnel who are authorized to certify monitoring and/or inspection reports.

#### 1.5 Facility Identification

The Santa Fe Springs Plant is located in Los Angeles County in the state of California at the intersection of Slauson and Dice Rd (See Figure 1, Site Location Map).

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#### 1.6 Storm Water Management

The facility has a buried storm drainage system that conveys storm water to the City of Santa Fe Springs drainage ditch. Storm water is collected in two catch basins by the acetylene building and conveyed by subsurface pipes to the storm water outfall south of the site. Storm water is transported by open ditch and discharged into Sorenson Avenue Creek, less than one-quarter mile away. Despite the preventative and contingency measures implemented at the Santa Fe Springs Facility, chemicals used at the facility have the potential to be release to the storm drainage system. The Sanat fe springs facility has developed and implemented specific procedures and practices that significantly reduce the possibility of these potential pollutants to be present in storm water runoff in significant quantities. These practices include detailed standard operating procedures, monthly inspections, and absorbent socks known as "pigs" around potentially leaking equipment.

#### 2.0 POLLUTION PREVENTION TEAM

Members of the Pollution Prevention Team (PPT) along with their responsibilities are provided in Appendix B. The PPT consists of key personnel who are familiar with the facility and its operation, and who provide adequate structure to ALAC's environmental management program.

The responsibilities of the PPT include the following:

- Coordinating plan development, implementation, and revisions;
- Ensure that the SWPPP complies with the permit conditions that apply to the plant and that the Plan accurately represents plant features and operations;
- Implementing all SWPPP requirements;
- Defining and agreeing upon appropriate goals for the facility's storm water management program;
- Identification of pollutants and contaminant sources;
- Being aware of any changes in ALAC;
- Providing on-site personnel training for
  - Storm Water Management
  - Storm Water Monitoring
- Coordinating and performing site inspections and monitoring requirements;
- Certifies discharge monitoring Reports;
- Recordkeeping and documenting procedures;

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- Annual updates to Plan and/or more frequent as required;
- Implementing preventative maintenance and good housekeeping programs;
- Implementation of Best Management Practices (BMPs) and corrective actions; and

#### 2.1 Duties of ALAC Personnel

The Plant Manager will have overall responsibility for the management of storm water and spill response development at the facility. This individual is responsible for overseeing the development, implementation, maintenance, and revision of this SWPPP. The Plant Manager is also responsible for assigning individuals to the Pollution Prevention Team along with reviewing responsibilities with each member.

The Pollution Prevention Team Members will be responsible for carrying out the duties of the plan as assigned by the plant manager and listed in Appendix B.

#### 3.0 POTENTIAL POLLUTANT SOURCES

#### 3.1 Site Plan and Drainage

The Air Liquide facility consists of 4 main buildings: Cylinder Fill Building, Maintenance Garage, Acetylene Building, and Office Building.

Facility drainage patterns are shown on the attached site plan, Appendix A. The flow patterns are dictated by the presence of surface materials (asphalt, concrete, gravel, silt, etc) drainage ditches and surface topography. Approximately 100% of the site is paved with concrete or asphalt.

#### 3.2 Material Inventory

For purposes of the SWPPP, the "significant materials" are defined as those substances related to industrial activities such as process chemicals, raw materials, fuels, pesticides, and fertilizers. Significant materials exposed to storm water runoff may be a source of pollution and can be carried to a receiving stream with the storm water flow. Therefore, identification of the significants helps to determine where a potential for contamination exists, and this identification process is the first step in identifying appropriate BMPs for implementation of an effective SWPPP.

This list also includes any materials listed under EPCRA section 313 and for which the facility is required to file and annual Form R and TRI forms. Also if a release occurs of one of these

materials in an amount that exceeds the listed Reportable Quantity (RQ), the facility is obligated to report this incident to local, state, and federal authorities as described in section 5.0 and recorded in Appendix C.

The Significant Material List and Material Data Safety Sheets (MSDS) for the above listed materials are available in Appendix D.

#### 3.3 Spills and Leaks

#### 3.3.1 Spill History

For various reasons, incidental spills and releases may have occurred from the facility. Documentation of spills and releases that have exceeded the EPA defined "Reportable Quantity" or have resulted in a visible sheen of oil upon a waterway, are included in Appendix E. The date of the earliest recorded reportable release incident at this facility is N/A. A record of spills and releases, or the annual entry documenting no releases, will remain a part of the Plan for a period of five years.

The nearest navigable water body that would be impacted by a spill from this facility is more than ¼ mile away. Storm water discharge is fed to the Sorenson Avenue Creek.

#### 3.4 Sampling Data

The ALAC Santa Fe Springs Plant is required to sample stormwater twice during the wet season for the following parameters:

Total suspended solids pH Specific Conductance Total Organic Carbon

Monitoring is required annually. Copies of all monitoring reports are located in Appendix J.

#### 3.5 Risk Identification and Summary of Potential Sources

The section briefly discusses the potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activities performed at the site or that may result in the discharge of pollutants due to non-storm water flows during dry weather conditions.

Potential sources of storm water contamination at the ALAC Santa Fe Springs Plant include, but are not limited to loading, unloading, and transferring of fuel, oil, and hazardous chemicals, outdoor storage of fuel in an AST; outdoor manufacturing/processing activities; and deterioration of motorized machinery.

The following describes potential spill sources that may have a potential to have an impact on the storm water:

#### Material Management and Storage Areas:

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14 above ground storage tanks (AST) and 0 underground storage tanks (UST); and 220 gallons of containerized storage. A list of these materials is noted in Appendix D of this plan. Inspections of these units are performed as described in section 6.0 of this plan.

#### • Operating Equipment with lubricants:

Operating equipment at the facility that contains lubricants consists of compressors, vacuums, and pumps. Daily visual inspections of operating and facility housekeeping are performed by shift supervisor as described in section 10. Storm water drainage from operational equipment areas may have the potential for oil contamination. This facility is equipped with an oil water separator to prevent contamination of storm water from these areas.

#### • Loading, Unloading, and Transfer of Chemicals and/or Fuel:

Loading/unloading procedures meet the minimum requirements and regulations of the Department of Transportation (49 CFR Parts 171,173,174, 177, and 179).

The regulations under 40 CFR 112.7(4)(ii) state that a containment system will be designed to hold at least the maximum capacity of any single compartment of a tank car or truck loaded or unloaded at the facility. If a containment system is not implemented for a particular tank, at a minimum a monitoring program is implemented during filling of the tanks. This program will consist of one facility person at the tank during filling by the fuel contractor to ensure that fuel is not spilled during the transfer operation and that the tank is secure after the operation.

In addition, during transfer operations for the facility equipment, the equipment operator will not leave the filling area during the transfer process. Warning signs will be posted in the tank area to inform operators to complete disconnecting of hoses and transfer lines before departing the area. Upon completion of the transfer operations, the facility personnel and the operator of the equipment are responsible for tightening outlets to prevent liquid leakage during transit.

• Outside Manufacturing or Processing Activities: The largest building onsite is the Cylinder Fill building, where industrial gases are packaged into gas cylinders. Within this building, cylinders are repainted near the shipping/receiving area, if required. Waste generated from this process are stored in 55 gallon drums and removed by a certified vendor. Plant Air and Helium Compressors are located on the West side of the building. Absorbent socks (Pigs) are placed around the equipment to prevent oil/contaminants from entering the storm water drain. "Kitty Litter," absorbent pads and "Pigs" are used to clean up spills and accidental releases.

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#### 4.0 MEASURES AND CONTROLS

#### 4.1 Best Management Practices - General

BMPs are the most appropriate measures or practices used to prevent or mitigate storm water pollution from any type of onsite activity. The purpose of the BMPs is to keep the pollutants out of the storm water runoff by reducing material exposure, directing the storm water away from contaminated areas, or reducing the volume of potentially polluting materials on the sites.

This section identifies, evaluates and presents a set of BMPs that are required to be implemented at the ALAC Plant to satisfy the requirements of the SWPPP. Baseline BMPs are general practices or standard operating procedures that are inexpensive, relatively simple, and applicable to wide variety of industrial activities. Industrial facilities are required to implement the baseline BMPs, where appropriate.

#### 4.2 Nonstructural Controls

#### 4.2.1 Good Housekeeping Practices

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Good housekeeping practices are common sense and very straightforward. Good housekeeping is the practice of maintaining a clean and orderly work environment. There are several simple procedures for achieving good housekeeping, including regular cleanup schedules, prompt and thorough removal of small spills that may occur, improved operation and maintenance, modified

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material storage practices, improved material inventory control, and routine garbage and rubbishpickup and disposal. In addition, maintaining organized work areas and providing simple
training programs to make employees aware of implemented BMPs will help achieve SWPPP
goals.

The following good housekeeping methods have been developed for implementation at the ALAC Santa Fe Springs Plant.

#### 4.2.2 Operation and Maintenance

These practices ensure the processes and equipment are working well.

- Maintain dry and clean floors and ground surfaces
- Pickup and dispose of trash, garbage, and other waste material on a regular basis.
- Ensure that all equipment is working properly
- Perform routine inspections for leaks or conditions that could lead to discharges of oil, chemicals, or waste products,
- Take immediate action to clean up spills and leaks from the handling and storage areas exposed to storm water,
- Provide proper BMP training to employees working with these materials and substances for implementation of good, sound housekeeping practices.

#### 4.2.3 Material Storage Practices

Improper storage can result in the release of materials and chemicals that can effect the storm water. The following provides a list of the BMPs for material storage areas at the plant.

- Adequate aisle space will be provided to facilitate material transfer and easy access for inspections,
- Drums and other containers will be stored away from direct traffic routes to prevent accidental spills and releases,
- Drums and containers will be managed in accordance with manufacture's instructions to avoid damaging the containers from improper weight distribution,
- Drums and containers will be stored upon an impervious surface. At no time will any drum or container be stored directly in contact with the ground, and
- Hazardous material inventories will be maintained by appropriate Pollution Prevention Team Member who is trained to handle hazardous waste.

#### 4.2.4 Employee Participation

Frequent and proper training of employees in good housekeeping practices reduces the possibility that chemicals or equipment will be mishandled. Motivating employees to reduced waste generation is an important pollution prevention technique.

4.2.5 Preventive Maintenance

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A preventive maintenance program is a means of preventing potential release situations before they occur. It involves regular inspection, testing of plant equipment and operational systems, and timely equipment repair and replacement of worn parts before a system fails.

#### 4.2.5.1 Identification of Equipment to Inspect

The following systems or equipment have the potential to malfunction and cause a spill, leak or release of materials.

- Tanks, tanks supports, and tank drains
- All aboveground piping
- Valves and valve fittings on all equipment
- All pumps and hose connections
- All equipment and process operations
- Containment structures
- Pollution control equipment (e.g. concrete sump, oil/water separator an sand trap)
- Concrete pads and associated drain inlets
- Non-vegetative areas

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#### 4.2.5.2 Schedule of Routine Preventative Maintenance Inspections

Regular visual inspections of the equipment identified above will be conducted. The equipment will be inspected for leaks, spills, corrosions, or other forms of deterioration or conditions that could cause breakdown or failure.

The essential preventive maintenance operations include:

- Appropriate adjustment, repair, or replacement of parts.
- Inspecting all machinery and equipment with emphasis on preventing non-storm water releases by locating and correcting any deficiencies that may result in a potential release.
  - Performing routine inspections of tank foundations connections, coatings, tank walls, and the piping system, including noting such warning signs as corrosion, leaks straining of tank supports, cracks, and bulges, and reporting and correcting any deficiencies.

# 4.2.5.3 Equipment Repair or Replacement

Defective equipment will be promptly repaired or replaced.

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#### 4.2.6 Spill Prevention and Response Procedures

Spills and leaks can be the largest potential source of storm water pollutants at the facility. Spill potential depends on how materials are handled, the types and volumes of materials handled.

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and how materials are stored. These areas where potential spills can occur were described in section 3.0 of this Plan.

Specific material handling procedures and storage requirements that are used at the plant to reduce the potential for spills include:

- Maintaining effective housekeeping practices
- Performing regular visual inspections to identify potential spill situations,
- Performing required plant preventive maintenance operations,
- Using proper filling procedures for tanks and other equipment,
- Using proper material transfer procedures including use of secondary containment, and
- Providing training for all employees in proper spill prevention and response techniques.

Spill response equipment is located in the paint storage shed. Brooms are located in the maintenance garage. The spill response equipment consists of the following items: brooms, absorbent pads, pigs, "kitty litter." Absorbent Metal Metal

#### 4.2.7 Inspections

The facility will conduct inspections as outlined in section 5.0

#### 4.2.8 Employee Training

The NPDES MSGP for storm water discharges associated with industrial activity mandates that employee training programs must inform personnel at all levels of responsibility of the components and goals of the SWPPP. Once a year, all employees should be trained in all components and goals of the SWPPP with training records kept in Appendix K.. This training should include, but not limited to, the following:

- reviewing the objectives of the SWPPP;
- reviewing the pollution control laws and regulations;
- instructing new employees with respect to BMPs;
- reviewing BMPs with pertinent employees
- evaluating success in achieving BMPs on a regular bases; and
- assessing activities in the facility which may affect the SWPPP.

#### 4.3 Structural Controls

#### 4.3.1 Sediment and Erosion Control

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Soil erosion is a natural process. However, it can be significantly accelerated by human activities which disturb the natural drainage such as construction, compacting or disturbing the soil, and covering the ground with impermeable surfaces like buildings and parking lots. The NPDES MSGP requires that all industries must identify the areas that may have a high potential

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for soil erosion. These areas include high traffic areas where vegetation cannot grow soil

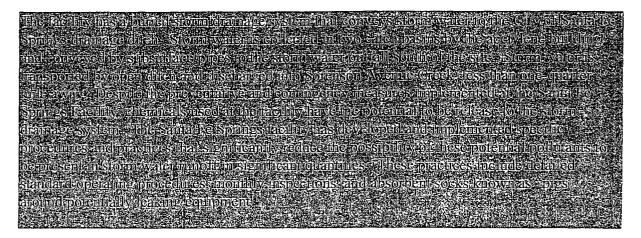
Stockpiles, stream banks and steep slopes, and a construction areas where soil is stripped of
plants and subject to wind and water erosion. In addition, industrial facilities are required to take
steps to limit the erosion. The Air Liquide Santa Fe Springs Plant has identified the following

(areas as having a high potential for signification soil erosion: N/A. BMPs for soil erosion control are as follows:

- Establish vegetation on the regraded and barren ground areas as soon as possible after final grading is complete by applying permanent seeding and planting of perennial grasses;
- Use low-maintenance local grass varieties so that a good vegetation cover is established to provide erosion protection quickly under normal weather conditions;
- · Provide other soil erosion control measures on steep slopes, if necessary, and
- Conduct periodic inspection of the areas to observe vegetative growth and soil erosion, implement additional measures such as reseeding and mulching, as required.

#### 4.3.2 Management of Runoff

The potential sources of storm water contamination at the ALAC Santa Fe Springs Plant were identified in section 3.0. As discussed earlier, storm water contamination is most likely to be generated by the following activities in the following areas: loading/unloading activities, storage of materials in ASTs and other containers, outdoor manufacturing/processing activities, access roads, equipment deterioration, and non-vegetated areas.



The storm water management system is sufficient to assist in helping the facility manage storm water runoff so as to reduce the discharge of pollutants. However, if these BMPs and storm water management systems become incapable of achieving the reduction of pollutants, modifications will be made to revise this SWPPP.

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#### 4.4 Non-Storm Water Discharges

All storm water outlets are examined for the presence of non-storm water discharge. Certification of non-storm water discharges is included in Appendix I.

Acceptable non-storm water discharges include the following:

- discharges from fire-fighting activities;
- fire hydrant flushing;
- potable water sources including water line flushing;
- irrigation drainage and lawn watering;
- uncontaminated ground water and flow from springs;
- drinking fountain water;
- uncontaminated compressor condensate
- foundation or footing drains where flows are not contaminated;
- routine exterior building wash down that does not use detergents or their compounds;
   and
- air conditioning condensate.

All wastewater discharges are from potable water.

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# 5.0 MONITORING AND REPORTING REQUIREMENTS

#### 5.1 Storm Water Monitoring Protocol

Storm water pollution prevention will be accomplished at the Air Liquide Santa Fe Springs Plant through the use of site inspections, good housekeeping practices, and the implementation of other best management practices. The effectiveness of the SWPPP will be evaluated using visual storm water monitoring and grab sample collection and analysis.

#### 5.1.1 Visual Observations and Site Inspections

As discussed in Section 4.2.3, visual observations and site inspection will be used by the members of the PPT to monitor storm water discharges from then facility for the presence of oily sheen, floating or suspended solid materials, discoloration, odor, or other physical evidence of potential pollutants.

All visual observations will be recorded on the inspection report and kept in Appendix L. All visual observations will be conducted during daylight hours only. Routine site inspections will be performed by members of the PPT to identify areas that could potentially contribute to the contamination of storm water runoff and to evaluate whether measures identified in the SWPPP to reduce pollutant loading are adequate and properly implemented in accordance with the terms of the permit.

Site inspections will focus upon the proper operation of site activities, good housekeeping practices, preventive maintenance activities, and the effectiveness of management practices. Any item requiring corrective action is identified on the report along with the corrective action taken to correct the item and bring it into compliance.

#### 5.1.2 Quarterly Monitoring

All outfalls that discharge storm water that comes into contact with industrial activity will be monitored for the following constituents:

- Total suspended solids
- pH
- Specific Conductance
- Total Organic Carbon

Analytical Monitoring Forms are located in Appendix F. Within the first 30 minutes of a storm event that is greater than 0.1 inches in total rainfall and that occurs at least 72 hours since the previously measurable storm event, a member of the PPT will collect a grab sample from the outfall. The ALAC Santa Fe Springs Plant is required to conduct monthly visual inspections and sample analytically twice during the wet season on an annual basis. The analytical data from the sampling events will be recorded on Discharge Monitoring Reports (DMR) received from the

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state. All storm water sampling will be performed during normal daytime operating hours for the safety of all sampling personnel and to maximize the effectiveness of visual observations.

In the event that a quarterly sampling event cannot be conducted as a result of adverse climatic conditions (high winds, lightning, etc.), the inspector will document the reason for not performing the sampling event and retain this document in Appendix L.

#### **Pre-sample Preparation**

Prior to onset of sampling, the following procedures will be established with all facility personnel assigned to the PPT:

- All personnel will be properly trained
- Contract with certified analytical laboratory to perform all required analysis;
- Obtain prepared and preserved sample bottles from the analytical laboratory;
- Review sample preparation and shipping requirements from the laboratory;
- Obtain all necessary sampling equipment, including ice chests, buckets, marking pens, etc.;
- Label all sample bottles and shipping cases; and
- Inspect discharge locations and use precautionary procedures to prevent accidents.

#### **Grab Sample Collection Procedures**

- Record the date and time that the storm event began in the Sampling Log.
- Label all sample containers properly with the following information:

Sample Identification Number

Location of Sample (Outfall #)

Facility Name

Date and time of sample collection

Type of sample (grab)

Sample preservative used (if any)

#### Type of analysis required

Name of the person collecting the sample

- Have a cooler filled with ice readily accessible
- Proceed to the discharge or sample location if weather permits and follow all safety precautions
- Collect the sample with the sample container from the center of the flow
- Avoid stirring up bottom sediment in the flow channel and keep the sample free of uncharacteristic floating debris
- Avoid touching the inside of the container to prevent contamination
- Keep multiple grab samples separate and clearly labeled
- Make note of the outfall number, time and date, as well as the height of the discharge in the outfall to determine accurate flow information

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• Place the sample in the ice chest or cooler

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#### Post-Sample Preparation, Packaging and Shipping

Once the samples have been collected and placed on ice, a written record of the chain-of-custody of the sample will be completed and the laboratory notified of the anticipated shipping time and date of the sample or make prior arrangements with the laboratory to pick up the sample. Chain-of-custody forms are available from the laboratory.

Wrap all glass containers in plastic bubble wrap to prevent breakage during transportation to the laboratory, and also place the chain-of-custody from in a plastic bag to prevent it from getting wet. If samples are to arrive at the lab on a weekend, special arrangement should be made with the laboratory in order for the samples to be analyzed within their holding time, which is usually 72 hours.

#### 5.2 Reporting

Annual Discharge Monitoring Reports. The analytical data from each sampling event must be reported to the State of California on or before July 1 on signed DMR forms. The DMRs for the facility must be submitted to the following address:

California State Water Resources Board Storm Water Permit Unit Sacramento, CA 95812-1977

**DICE 00887** 

#### 6.0 CERTIFICATIONS

#### 6.1 Notice of Intent

A copy of the NOI Application for storm water discharges associated with an industrial activity is presented in Appendix M. Submission of the NOI allows the permittee to obtain coverage under the applicable storm water permit.

#### 6.2 SWPPP Certification

This SWPPP must be signed and certified by a designated company official indicating that the Plan has been prepared in accordance with the permit requirements. This certification requirement for the Plan is located in section 8.0.

#### 6.3 Non-Storm Water Discharges

The SWPPP must include a certification, signed by an authorized individual, that discharges from the site have been tested or evaluated for the presence of non-storm water discharges. The certification must describe possible significant sources of non-storm water, the results of an test/and or evaluation conducted to detect such discharges, the test method or evaluation criteria used, the dates on which tests or evaluations were performed, and the onsite drainage points directly observed during the test or evaluation.

A Non-Storm Water Discharge Assessment and Certification form (Appendix I) will be completed after each inspection, signed by the authorized individual, and inserted into Appendix I.

#### 6.4 Inspection and Report Certification

All reports, inspections, and other information required by the NPDES MSGP must be signed by a responsible corporate office or a duly authorized representative as outlined in section 9.0 of this Plan.

#### 6.5 Comprehensive Site Compliance Evaluation Certification

The MSGP requires that qualified personnel conduct site compliance evaluations at appropriate intervals specified in the SWPPP or at least once a year. Specified requirements include:

- Inspection of storm water drainage areas for evidence of pollutants entering the drainage system;
- Verification of the descriptions of potential pollutant sources; verification that the site drainage map is accurate; verification that controls specified in the SWPPP are correctly implemented;
- Evaluation of the effectiveness of the measures to reduce pollutant loading;

- Observation of structural measures, sediment controls and other BMPs to ensure proper operation; inspect all other equipment needed in implementation of the SWPPP;
- Revision of the plan as needed within two weeks after inspection and implement needed changes within twelve weeks; and
- Summary of the inspection results in a short report which documents the following: date of inspection, personnel conducting the inspection, either (1) identification of incidents of noncompliance or (2) certification that the facility is in compliance with the plan, and proper signatures.
- A member of the PPT will perform the Comprehensive Site Compliance Audit.

A certified report summarizing the scope of the inspection, personnel performing the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and response actions taken will be developed and retained as part of the SWPPP for at least 3 years following the date of the inspection.

**DICE 00889** 

The SWPPP, inspection reports, monitoring reports, and other SWPPP information will be made available upon request to ALAC employees, the EPA, California, the U.S. Fish and Wildlife Service or National Marine Fisheries Service. The SWPPP and associated records are also available to the public upon requires through the permitting authority.

8.0 CERTIFICATION

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**DICE 00890** 

Air Liquide America Corporation

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This Plan has been prepared for the ALAC Santa Fe Springs Plant in accordance with the requirements as outlined in the NPDES MSGP.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on the inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations.

To the best of knowledge, the discharges covered under this permit, and the construction of BMPs to control storm water runoff, are not likely and will not likely, adversely affect any species identified under the Endangered Species Act (See Appendix O).

To the best of my knowledge, I further certify that such discharges, and construction of BMPs to control storm water runoff, do not have an affect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage due to a previous agreement under the National Historic Preservation Act.

_(Signature)	(Date)
_(Title)	

#### 9.0 AUTHORIZED REPRESENTATIVE DELEGATION

DICE 00891

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In accordance with the provision of the permit, all routine inspection reports will be signed by—the Authorized Signatory or Authorized Representative.
The following duly authorized representatives for the ALAC Santa Fe Springs Plant's industrial activities are responsible for signing all routine reports related to the NPDES MSGP:
Aaron Tesch
I certify that I meet the requirements of the NPDES MSGP for Storm Water Discharges associated with Industrial Activities.
(Signature)
(Date)
(Title)

**DICE 00892** 

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# APPENDIX A

# **FIGURES**

- a. SITE LOCATION MAP
- b. SITE DRAINAGE MAP

**DICE 00893** 

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# APPENDIX B

# POLLUTION PREVENTION TEAM ROSTER

# POLLUTION PREVENTION TEAM

On an annual basis, this plan in addition to the facility's storm water pollution prevention program, must be evaluated by a team made up of the following individuals:

**DICE 00894** 

-1.1

Name and Job Title	Team Role	Responsibilities
Aaron Tesch: Plant Manager	Team Leader	Overall team activities
		<ul> <li>Plan update and modifications</li> <li>Training and evaluation of current plan</li> <li>Records and reports</li> <li>Signature authority</li> <li>Conduct employee training</li> <li>Submit reports</li> <li>Implement BMPs</li> </ul>
Joshua Mermelstein: Plant	Team Member	Inspections
Engineer		Preventative Maintenance
		<ul><li>Spill Response</li></ul>
Lindolfo Clemente: Lead	Team Member	• Inspections
		Housekeeping
		Materials Management
		Spill Response
		•

The team leader is responsible for ensuring that the group meets, at a minimum, of once per calendar year and that the following tasks are completed:

- 1. This plan is reviewed and discussed with the team and that all items are current and correct.
- 2. The team visually inspects the facility and completes the annual inspection form in Appendix C.
- 3. The team develops an action plan to correct any deficiencies or make any improvements discovered during the above exercises.
- 4. All documentation of the annual evaluation are retained in the facility's records.

**DICE 00895** 

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# APPENDIX C SPILL RESPONSE NOTIFICATION FORM

# SPILL RESPONSE NOTIFICATION FORM

Name of Facility			<del></del>	
Street Address				
City:	State	Zıp		DICE 00896
Name/Title of Person Making Report				
Air Liquide America Corporation		<del></del>		30

Phone	FAX		
Material Released(attach MSDS)			
Form and Quantity of Material Released			
Material's Reportable Quantity (if know	n)		<del>_</del> _
•	ered, cause and response taken, (continue on	n back if necessary)	
Date and time (appx.) release occurred			_
Name of person who discovered release:			~
Was there a fire hazard associated with i	elease?		
If yes, Was local fire departs	nent notified?	····	
(If spill entered water, identify the water	er a water source?source) public or private)/list		
List governmental agencies contacted (for	ederal, local, state) and person making conta	nct	·
Agency/Officer Name	Date/Time Contacted	by who	case #
			_ 
Was any site remediation necessary?			_
What action steps are taken (or planned) Action	to prevent any recurrence of similar inciden	nt. <u>Completion/Target</u>	<u>Date</u>

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# APPENDIX D SIGNIFICANT MATERIAL LIST MSDSs

**DICE 00898** 

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SIGNIPIGANT MATERIALILIST ALAG Santagraspenigsvälanta			Samar Pa Spaintestill	Gompletedabyyo Tildleta Daire			
Mist nun	ructions List	áll matedals úsed.	stored, or produced unside	e Akssess and	exallite dese materials for their potential to contribute p	ollitianis io sivali	(Water)
	Material	Purpose	Location	Quantity (Units)	Likelihood of contact with storm water. If yes, describe reason.	Past Signif or L Yes	
							<u>i.</u>
	:					J !	
							<u> </u>
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TI OO							
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APPENDIX E

SPILL HISTORY

CCOIG DEIG	ow all significant spills a	and leaks of toxic or haza	rdous pollutants that have occurred	Table 1 at the facility in the three years prior to the effective date of
ermit				tat the facility in the three years prior to the effective date of
none occi		indicate no significant spil		
ate	Location	Material Released	Approximate Quantity of Material Released	Action Taken in Response to Spill
			,	,
<u> </u>				
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APPENDIX F
INSPECTION FORMS

**DICE 00902** 

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The second secon	and a second of the second	TO THE STATE OF TH	Complet	ed by:				
MONTHL	MONTHLY VISUAL INSPECTIONS Title:  Date:							
	23 by:	in the same	Date:		,,,,	<u>and the Articles of the Control of </u>		
Area/Item Inspected			ection Checklist			Tracking Information		
Storage Tanks		dence of Evic	lence of G	eneral		Date of Inspection.		
Items to be inspected	Spili			eanliness		Name of Inspector:		
include tank integrity, secondary containment,	ΠVa			Area or 🛘 Good		Action Items Noted:  Yes  No		
loading/unloading area,				or 🗆 Good				
piping components, and	T .		s 🗆 No 🗆 Po					
potential physical				or 🛚 Good				
hazards to tank integrity.				or 🛮 Good				
				or 🛘 Good or 🖟 Good				
Inspection Resul		Responsible	Date Notified	Date Resolved		Description of Action Taken		
Require Action to	be Taken	Person	(MM/DD/YY)	(MM/DD/YY)				
		<b> -</b>	ļ					
		<del> </del>	<del> </del>					
		<del> </del>	<del> </del>	<del></del>				
		† <del></del>						
					<u></u>			
Area/Item Inspected			ection Checklist		<del> </del>	Tracking Information		
Containers		<u> </u>	ence of Eviden			Date of Inspection:		
Items to be inspected include container	Inspected C	ontainers Spill/	Leak Potenti Spill/L			Name of Inspector: Action Items Noted. □ Yes □ No		
integrity, secondary	☐ Yes ☐ No ☐	l Yes □ No □ Yes			, □ Good	Action items roted. In 163 In 160		
containment, and								
potential physical								
hazards to container integrity								
Inspection Resul	ts which	Responsible	Date Notified	Date Resolved	T	Description of Action Taken		
Require Action to		Person	(MM/DD/YY)	(MM/DD/YY)	<u> </u>			
<u></u>	<del></del>	<u> </u>	·	ļ. <u></u>	ļ			
<u> </u>		<u> </u>	<del> </del>					
	<del></del>	<del>}</del>	<del> </del>		<del> </del>			
<u> </u>		+	<del> </del>	<del></del>	<del> </del>			

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Completed by: Title: Date:								
monatus.	I. VIDOAD IIIDI	ECLIONS.	Doto:		<del></del>			
			Date:		-	<del></del>		
Area/Item Inspected	1	Inche	ection Checklist	<u>naka mana manaka naka karan</u>	9 / T _ (G- 1) (4	Tracking Information		
Containment Areas	Areas A			1 Cleanliness		Data of Increation:		
Items to be inspected		spected Grou				Date of Inspection: Name of Inspector:		
include the general				Good		Action Items Noted:		
storage areas.				Good		Action Remarkoted, La rea La rea		
1	}	100 22 110		2 0000				
Inspection Resu	lts which	Responsible	Date Notified	Date Resolved		Description of Action Taken		
Require Action to	be Taken	Person	(MM/DD/YY)	(MM/DD/YY)		·		
	_ <u>'</u>							
<u> </u>								
Area/Item Inspected	<u> </u>		ection Checklist			Tracking Information		
Transfer Areas		xcessive Residue on General Cleanliness				Date of Inspection		
Loading or unloading		missions Ground of Area				Name of Inspector:		
areas	☐ Yes ☐ No ☐	Yes □ No □ Yes □ No □ Poor □ Good				Action Items Noted		
In an anti-	141-1	Describe De Neigel Des Deel			<del></del>	Description of Assista Takon		
Inspection Resu Require Action to		Responsible Person	Date Notified (MM/DD/YY)	Date Resolved (MM/DD/YY)		Description of Action Taken		
Require Action to	De laken	rerson	(WIWI/DD/11)					
	<del></del>	<del></del>	<del> </del>					
					<del> </del>			
Area/Item Inspected		Insn	ection Checklist	L		Tracking Information		
Site Equipment	All Equipment	Maintenance	Evidence of	General Cleanlin	ess	Date of Inspection:		
Items to be inspected	Inspected	Records not	Any Leaks	of Equipment		Name of Inspector:		
include all vehicles,	•	Current	,	1		Name of Inspector: Action Items Noted ☐ Yes ☐ No		
heavy equipment, and	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	□ Poor □ Go	od			
other site equipment								
which use oils or fuels	<u> </u>				<del></del>	<u></u>		
Inspection Results which		Responsible	Date Notified	Date Resolved		Description of Action Taken		
Require Action to	be Taken	Person	(MM/DD/YY)	(MM/DD/YY)	ļ			
		ļ			ļ	<u> </u>		
		-	<del> </del>		<del> </del>			
		ļ ·	<del> </del>	<del> </del>	<del> </del>			
Area/Item Inspected		Inon	ection Checklist	<u> </u>	<u> </u>	Tracking Information		
Area/riem ruspected	<u> </u>	ruspe	ection Checklist			Tracking Information		

Outdoor Receptacles	All Receptacles Inspected  Yes \( \simega \) No	Evidence of Spill/Leak	Evidence of Potential for Spill/Leak	General Cleanliness of Areas □ Poor □	3	Date of Inspection Name of Inspector: Action Items Noted:  Yes  No
Inspection Results which Require Action to be Taken		Responsible Person	Date Resolved (MM/DD/YY)  (MM/DD/YY)			Description of Action Taken
Area/Item Inspected Storm Water Conveyance System	All Catch Basins, Dikes, & Ditches Inspected Yes No	Evidence of Contamination  Yes No	Evidence of Obstructions  D Yes D No	Evidence of Erosion  D Yes D No		Tracking Information  Date of Inspection Name of Inspector. Action Items Noted: □ Yes □ No
Inspection Resul	lts which	Responsible Person	Date Notified (MM/DD/YY)	Date Resolved (MM/DD/YY)		Description of Action Taken
Area/Item Inspected			ction Checklist			Tracking Information
Outdoor Grounds The inspection is not meant to be comprehensive	Evidence of Rutting or Erosion	☐ Yes ☐ No	Evidence of Potential for Spill/Leak	General Cleanliness of Areas □ Poor E		Date of Inspection Name of Inspector. Action Items Noted: □ Yes □ No
Inspection Resul Require Action to		Responsible Person	Date Notified (MM/DD/YY)	Date Resolved (MM/DD/YY)	•	

QUARTERLY	Completed by:				
VISUAL MONITORING	Completed by: Title: Date:				
(A sample should only be grabbed if storm event > 0	nformation 1.1 inches, last rain event > 0.1 inches occurred at least ites of outfall discharge associated with storm event)				
Outfall:	Date of Last Storm Event:				
Date of Examination:	Storm Event > 0.1 Inches: ☐ Yes ☐ No				
Name of Examiner:	Storm Event Start Time:				
Examination Area Well Lit: 🗆 Yes 🗆 No					
	vations that apply)				
☐ Colored water (describe)	☐ Suspended solids (describe)				
□ Odor* (describe)	□ Foam				
	□ Oil Sheen				
☐ Clear water	☐ Stains on conveyance				
☐ Floating solids (describe)	☐ Absence of plant life surrounding conveyance				
☐ Settled solids (describe)	☐ Notable difference in plant life surrounding conveyance				
*e.g., rotten eggs, earthy, chemical, chlorine, soap, putres	cence, gasoline, musty, etc.				
(Should any storm water contamination by	on Follow-Up be noted, provide a discussion of probable es taken to prevent future contamination.)				
	•				
OHADTERIA	Completed by:				
QUARTERLY	Title:				

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ANALYTICAL MO	NITORING	Date:	The same of the sa			
A sample should only be grabbed prior, and sample is taken within Minimum sample volume collect	General In It if storm event > 0.1 mol 30 minutes of outfall dis	nformation nes, last rain event > 0.1 inc				
Outfall:		Date of Last Storm Event:	· · · · · · · · · · · · · · · · · · ·			
Date of Sampling:		Storm Event > 0.1 Inches:	□ Yes □ No			
Name of Sampler:		Storm Event Start Time				
Time of Sample Collection.		Duration since Last Storm	Event (hours):			
Estimated/Measured Total Rainfa	all (inches):	Storm Event Duration (ho	urs):			
The runoff coefficients method vecent.		Discharge Sampled total volume of storm water	r discharged during a storm			
$Q_T = 0.62R_T[0.9A_T - 0.4A_{UP}]$		Parameter	Value			
where,		$R_T$				
$Q_T$ = total runoff volume (g		A <sub>T</sub>				
$R_T = total rainfall (in) - {se}$		A <sub>UP</sub>				
$A_T$ = total area of site which		Q <sub>T</sub>				
$A_{UP}$ = total unpaved area at s						
	-	formation				
Please attach a copy of the Chain	of Custody Form and La	<del>,</del>	rksheet.			
	Result	Monitoring Cut-Off Concentration	Result > Cut-Off			
Parameter	(mg/L)	(mg/L)	(Yes/No)			
Aluminum	(ing/L)	0.75	(103/110)			
Iron		1.0				
Nitrate plus Nitrite Nitrogen		0.68				
If parameter results are greater the measures taken to lower concentrations.	an cut-off, provide a disc	w-Up cussion of probable cause of	high concentration and any			
If this is the 4 <sup>th</sup> Quarter, calculate						
		entrations (mg/L)	Average Concentration			
Parameter	1 <sup>st</sup> 2 <sup>nd</sup>	3 <sup>rd</sup> 4 <sup>th</sup>	(mg/L)			
Aluminum						
Iron		<del></del>				
Nıtrate plus Nıtrıte Nitrogen		<u> </u>				

**DICE 00907** 

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## APPENDIX G POTENTIAL STORM WATER POLLUTANTS

**DICE 00908** 

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PONENTIAL STORMY		Compleraby:							
List all identified storm water pollutant sources and describe existing management practices that address those sources. Also, list BMP options that can be incorporated into the plan to address remaining sources of pollutants.									
Storm Water Pollutant Sources and Pollutants	Existing Management Practice	BMP Options							
1									
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## APPENDIX H SWPPP REVISION LOG

**DICE 00910** 

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### Storm Water Pollution Prevention Plan Revision Log

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**DICE 00911** 

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#### APPENDIX I

#### NON-STORM WATER DISHARGE ASSESSMENT

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**CERTIFICATION** 

**DICE 00912** 

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		And An Condesing the Marchest and The State of the State	Completed by:					
- N	ON-STORM WATER DISCHA	RGE	Title: Date:					
Date of	SESSMENT AND CERTIFICA	ATION	Bate: ************************************	the second and the second second				
Test or Evaluation (MM/DD/YY)	Outfall Directly Observed During Test (as indicated on site map)	Method Used to Test or Evaluate Discharge	Describe Results from Test for Presence of Non-Storm Water Discharge	Identify Potential Significant Sources	Name of Person Who Conducted the Test or Evaluation			
	······································		TOTAL CATION					
l,	(responsible earn		ERTIFICATION  y under penalty of law that this d	ocument and all attachme	ents were prepared			
			signed to assure that qualified per					
information sub	mitted. Based on my inquiry	of the person or pers	ons who manage the system or the	nose persons directly resp	consible for gathering			
			owledge and belief, true, accurat					
	ities for submitting false infor	mation, including th	ne possibility of fine and imprisonment for knowing violations.  B. Area Code and Telephone No.					
A. Name & Off	iciai Thie (type of print)			B. Area Code and Telephone No.				
C Signature	1			D. Date Signed				

#### APPENDIX J

### DISCHARGE MONITORING REPORTS

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## APPENDIX K COMPLETED TRAINING RECORDS

**DICE 00915** 

## APPENDIX L COMPLETED INSPECTIONS

**DICE 00916** 

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## APPENDIX M NOTICE OF INTENT

**DICE 00917** 

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## APPENDIX N STORMWATER PERMIT

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**DICE 00918** 

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## APPENDIX O ENDANGERED SPECIES

**DICE 00919** 

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### ANNUAL REPORT

STORM WATER DISCHARGES ASSOCIATED
WITH INDUSTRIAL ACTIVITIES

Svom 1760 6/30/89 FOIA ex 6, Personal Privacy

Reporting Period July 1, 1998 through June 30, 1999

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. Retain a copy of the completed Annual Report for your records.

If any information contained in Items A, B, and C below is incorrect, please cross out or highlight the incorrect information (do not white out or erase) and provide the correct information next to or above the incorrect information.

If you have any questions, please contact your Regional Board Storm Water Program Contact. The address of the Regional Board (where the Annual Report must be filed) along with the name and telephone number of the contact is indicated below.

#### REGIONAL BOARD INFORMATION:

LOS ANGELES REGIONAL WATER BOARD 101 CENTRE PLAZA DR. MONTEREY PARK, CA 91754-2156

DAN RADULESCU (323) 266-7630

#### **GENERAL INFORMATION**

A. Facility WDID No:

**B.** Facility Operator Information:

Contact Person:

FOIA ex 6, Personal Privacy

C. Facility Information:

Contact Person:

FOIA ex 6, Personal Privacy

SIC Code(s):

2813

Industrial Gases

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ELQUID AIR CORPORATION AIR LIQUIDE AMERICA CORP. 8832 DICE ROAD SANTA FE SPRINGS, CA 90670

LIQUID AIR CORPORATION. AIR LIQUIDE AMERICA CORP. 8832 DICE ROAD
SANTA FE SPRINGS, CA 90670

#### 1999-2000 ANNUAL REPORT

#### SPECIFIC INFORMATION

#### MONITORING AND REPORTING PROGRAM

D	SA	MPLING A	A QUA	NALYSIS	EXEMP	TIONS AN	ID REDUC	CTIONS				'		
	For the reporting period, was your facility exempt from collecting and analyzing sam accordance with sections B.12 or 15 of the General Permit?							ng samples fro	om two ston	n ever	nts∖in			
		YI	ES	Go to I	tem D 2				$\boxtimes$	NO	Go to Secti	on E		
	2						from collection in				oles from two s	storm event	s. Att	ach a
		1	Parti	icipating i	in an App	roved Gro	up Monito	ring Plai	ח	Group	Name:			···
		ii.	-		·	re Certific	cation (NE	EC)		Date S	Submitted:		<del></del>	T .
							VEC condi	tions?		YES	☐ NC	)		
		iii.					Certifica	tion (SR	C)	Date S	Submitted: _			
			Re-e	evaluation	Date: _	1 1								
			Does	s facility o	ontinue t	o satisfy S	RC condi	tions?		YES	Пис	)		
		ıv.	Rece	eived Reg	gional Boa	ard Certific	cation			Certific	cation Date:			٠
		v	Rece	eived Loc	al Agenc	y Certifica	tion .			Cetifica	ation Date: _			
	3.	If you ch	ecked	boxes i d	or iii abov	e, were yo	ou schedul	ed to sa	mple on	e storm	event during th	he reporting	year?	•
		Y	ES	Go to S	Section E					МО	Go to Section	on F		
	4.	If you ch	ecked	boxes ií,	iv, or v, g	jo to Secti	on F.							
E.	SAM	IPLING A	ND AN	IALYSIS	RESULT	<u>S</u>								
	1.	How mar	ny stoi	rm events	s did you	sample?	1			2.i or iii.	ttach explana above, only at			
	2.						he first sto n B.5 of th				et produced a c	discharge d	uring	
		X Y	ES							МО	Attach expl	lanation		
	3.	How mai	ny stoi	rm water	discharge	e locations	are at you	ur facility	?		_			

4.		reach storm event sampled, did you collect and analyze a nple from each of the facilitys' storm water discharge locations?	YES, go to	Item E.6	NO NO
<b>5</b> .		is sample collection or analysis reduced in accordance h Section B.7 d of the General Permit?	YES	NO, att	ach explanation
		YES", attach documentation supporting your determination to two or more drainage areas are substantially identical.			
	Da	te facility's drainage areas were last evaluated//		=	
6.	We	ere all samples collected during the first hour of discharge?	YES	NO, att	ach explanation
7.		is <u>all</u> storm water sampling preceded by three (3) rking days without a storm water discharge?	YES	NO, att	ach explanation
8.		ere there any discharges of stormwater that had been inporarily stored or contained? (such as from a pond)	YES	NO, go	to Item E.10
9.	cont	you collect and analyze samples of temporarily stored or anned storm water discharges from two storm events? one storm event if you checked item D.2.i or iii. above)	YES	NO, att	ach explanation
10.	Spe	tion B.5. of the General Permit requires you to analyze storm wa cific Conductance (SC), Total Organic Carbon (TOC) or Oil and on m water discharges in significant quantities, and analytical param	Grease (O&G), oth	er pollutants like	ly to be present in
	a.	Does Table D contain any additional parameters related to your facility's SIC code(s)?	YES	₩ NO, Go	to Item E.11
	b.	Did you analyze all storm water samples for the applicable parameters listed in Table D?	YES	M NO	
	C.	If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:			
		In prior sampling years, the parameter(s) have not be consecutive sampling events. Attach explanation	een detected in sig	nificant quantitie	s from two
		The parameter(s) is not likely to be present in storm of discharges in significant quantities based upon the fa			
		Other. Attach explanation			
11.		each storm event sampled, attach a copy of the laboratory analy lts using Form 1 or its equivalent. The following must be provide			ig and analysis
	•	Date and time of sample collection • T	esting results.		
	•	_	est methods used. est detection limits		
	•		Pate of testing. Copies of the labora	ntory analytical r	esults.

#### QUARTERLY VISUAL OBSERVATIONS Authorized Non-Storm Water Discharges 1. Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources. Do authorized non-storm water discharges occur at your facility? 1. 3 50 71 99 NO Go to Item F.2 Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. Attach an explanation for any "NO" answers. Indicate "N/A" for quarters without any authorized non-storm water discharges. October-December July -September YES NO N/A ☐ YES ☐ NO | ∃N/A January-March YES NO NA April-June YES \ \ NO Use Form 2 to report quarterly visual observations of authorized non-storm water discharges or provide the following information A 27 6 ,特拉拉拉 name of each authorized non-storm water discharge i. ij. date and time of observation source and location of each authorized non-storm water discharge iv. characteristics of the discharge at its source and impacted drainage area/discharge location name, title, and signature of observer any new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date. **Unauthorized Non-Storm Water Discharges** Section B.3 a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized nonstorm water discharges and their sources. Attach an explanation for any "NO" answers YES NO July -September October-December X YES NO YES NO April-June January-March NO Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected? YES NO Go to item F.2.d Have each of the unauthorized non-storm water discharges been eliminated or permitted? C. NO Attach explanation d. Use Form 3 to report quarterly unauthorized non-storm water discharge visual observations or provide the following information. name of each unauthorized non-storm water discharge. ii. date and time of observation iii. source and location of each unauthorized non-storm water discharge. iv. characteristics of the discharge at its source and impacted drainage area/discharge location.

\_4.

any corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water

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name, title, and signature of observer.

discharge(s) was eliminated or scheduled to be eliminated.

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	``		Secretary of the first of the secretary
•		MONTHLY WET SEASON VISUAL OBSERVATIONS Section B.4.a of the General Permit requires you to con	duct monthly visual observations of storm water
		the first hour of discharge or, in the case of temporarily	the wet season. These observations shall occur during stored or contained storm water, at the time of discharge.
		locations. Attach an explanation for any "NO" a	is of storm water discharges occurred at all discharge inswers. Include in this explanation whether any eligible
		storm events occurred during scheduled facility on and provide the date, time, name and title of the p	perating hours that did not result in a storm water discharge, erson who observed that there was no storm water
		discharge.	निर्मा के जिल्ला है है जिल्ला है जिल्ला है जिल्ला है जिल्ला है है जिल्ला है
		YES NO	February Carrier Company Compa
		November	March Advance in the description of the second
		December	April April Same Company
	; · 1	January Michigan Control of the Cont	May
		Committee of the commit	sing Form 4 or provide the following information:
		a. date time and location of observation  b name and little of observer	न्त्र द र पात्र ता ताम् दि हार्यात क्षेत्र क्षेत्रमात् हे पाक्ष्म न वृत्त्र का रता. कार्यान्त्र स्वातः ताम् दिक्तान क्षेत्र स्वातः वृत्ताः क्ष्म क्षार्यात्मातः व्य
		c. characteristics of the discharge (i.e., odor, o	color, etc.) and source of any pollutants observed.
		<ul> <li>d. any new or revised BMPs necessary to red         Provide new or revised BMP implementatio     </li> </ul>	uce or prevent pollutants in storm water discharges. n date.
		and the same state of the same of the same of	हें है है है है है है ।
AN	NUA	AL COMPREHENSIVE SÎTE COMPLIÂNCE EVALU	ATION (ACSCE)
Н.	ACS	SCE CHECKLIST	# ভারত এইছা টাপ্টার্ট স্থানি বিশ্ব
• 1.		* ,	a conversa consequence de la consequencia de la con
	June	ne 30). Evaluations must be conducted within 8-16 month	or to conduct one ACSCE in each reporting period (July 1- ns of each other. The SWPPP and monitoring program shall
	be r	revised and implemented, as necessary, within 90 days of	of the evaluation. The checklist below includes the minimum ou have performed each step below. Attach an Association
		planation for any "NO" answers.	in have performed each step below systuaction in the state of the
	1.	ಲ್ಲಿಸಲಾಗಿ ಅಥೆ ಧರ್ಮ Have you inspected all potential pollutant sources and	industrial activities areas? XYES NO
	١.	The following areas should be inspected:	्रद्धा और 🔎 भी भूके का प्रदेश करता । 👉 है एक ए
		<ul> <li>areas where spills and leaks have toccured during</li> </ul>	## settlement's ####################################
		the last year.	material storage areas
		<ul> <li>outdoor wash and rinse areas. Attack a second</li> <li>process/manufacturing areas.</li> </ul>	<ul> <li>vehicle/equipment storage areas</li> <li>truck parking and access areas</li> </ul>
		<ul> <li>loading, unloading, and transfer areas.</li> </ul>	<ul> <li>rooftop equipment areas</li> </ul>
		waste storage/disposal areas.	vehicle fueling/maintenance areas
		<ul><li>dust/particulate generating areas.</li><li>erosion areas.</li></ul>	non-storm water discharge generating areas     non-storm water discharge generating areas
		in Benefit jamen til dette store i en	the state of the s
	2.	Have you reviewed your SWPPP to assure that its BM potential pollutant sources and industrial activities are:	

is up-to-date? The following site map items should be verified:

紫石管

Have you inspected the entire facility to verify that the SWPPP's site map,

- facility boundaries outline of all storm water drainage areas
- areas impacted by run-on

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- Complete the first of the second storm water discharges locations
  - storm water collection and conveyance system
  - structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

4.	Have you reviewed all General Permit compliance records since the last annual evaluation?  The following records should be reviewed:	s ger	eraled	YES	МО
	<ul> <li>quarterly authorized non-storm water discharge visual observations</li> <li>monthly storm water discharge visual observation</li> <li>records of spills/leaks and associated clean-up/response activities</li> </ul>	•	quarterly unauthori- water discharge vis Sampling and Anal preventative mainte and maintenance re	sual observations ysis records enance inspectio	
5.	Have you reviewed the major elements of the SWPPP to a compliance with the General Permit?	assu	re	YES	NO NO
	The following SWPPP items should be reviewed:				
	<ul> <li>pollution prevention team</li> <li>list of significant materials</li> <li>description of potential pollutant sources</li> </ul>	•	assessment of pote identification and dimplemented for ea	escription of the	BMPs to be
6.	Have you reviewed your SWPPP to assure that a) the BM in reducing or preventing pollutants in storm water dischar non-storm water discharges, and b) the BMPs are being in	rges	and authorized	YES	□№
	The following BMP categories should be reviewed:				
	<ul> <li>good housekeeping practices</li> <li>spill response</li> <li>employee training</li> <li>erosion control</li> <li>quality assurance</li> </ul>	•	preventative maint material handling a waste handling/sto structural BMPs	and storage prac	dices
7.	Has all material handling equipment and equipment needs implement the SWPPP been inspected?	ed to		YES	□ NO
ACS	CE EVALUATION REPORT				
The	facility operator is required to provide an evaluation report t	that i	ncludes:		
•	identification of personnel performing the evaluation the date(s) of the evaluation necessary SWPPP revisions	•	schedule for impler any incidents of not actions taken.		
Use	Form 5 to report the results of your evaluation or develop a	an ec	uvalent form.		
<u>ACS</u>	CE CERTIFICATION				
The cert	facility operator is required to certify compliance with the In fy compliance, both the SWPPP and Monitoring Program m	idust nust l	rial Activities Storm \ be up to date and be	Nater General P fully implemente	ermit. To ed.
	ed upon your ACSCE, do you certify compliance with the In vities Storm Water General Permit?	dust	rial YES	5 🔲	NO
	ou answered "NO" attach an explanation to the ACSCE Evapliance with the Industrial Activities Storm Water General P			are not in	

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#### ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

1.	Have you attached Forms 1,2,3,4, and 5 or their equivalent?	YES (M	andatory)	
2.	If you conducted sampling and analysis, have you attached the laboratory analytical reports?	YES	☐ NO	☐ NA
3.	If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications?	YES	□ №	X NA
4.	Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H 1-H.7, or J?	YES	□ NO	□ NA

#### **ANNUAL REPORT CERTIFICATION**

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I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Toby Frickson	
Signature: July Pich	Date: 6/30/00
Title: Malana T	

#### DESCRIPTION OF BASIC ANALYTICAL PARAMETERS

The Industrial Activities Storm Water General Permit (General Permit) requires you to analyze storm water samples for at least four parameters. These are pH, Total Suspended Solids (TSS), Specific Conductance (SC), and Fotal Organic Cathon (TOC). Oil and Grease (O&G) may be substituted for TOC. In addition, you must monitor for any other pollutants which you believe to be present in your storm water discharge as a result of industrial activity and analytical parameters listed in Table D to the General Permit. There are no numeric limitations for the parameters you test for

The four parameters which the General Permit requires to be tested are considered indicator parameters. In other words a regardless of what type of facility you operate, these parameters are nonspecific and general enough to usually provide some indication whether pollutants are present in your storm water discharge. The following briefly explains what each of the second parameters mean.

pH is a numeric measure of the hydrogen-ion concentration. The neutral, or acceptable, range is within 6.5 to 8.5. At values less than 6.5, the water is considered acidic, above 8.5 it is considered alkaline or basic. An example of an acidic substance is vinegar, and a alkaline or basic substance is liquid antacid. Pure rainfall tends to have a pH of a little less than 3.7 There is may be sources of materials or industrial activities which could increase or decrease the pH of your storm water discharge are high or low, you should conduct a thorough evaluation of all potential pollutant sources at your site.

Total Suspended Solids (TSS) is a measure of the undissolved solids that are present in your stormwater discharge. Sources of TSS include sediment from erosion of exposed land, and dirt from impervious (i.e. paved) areas. Sediment by itself can be very toxic to aquatic life because it covers feeding and breeding grounds, and can smother organisms living on the bottom of a water body. Toxic chemicals and other pollutants also adhere to sediment particles. This provides a medium by which toxic or other pollutants end up in our water ways and ultimately in human and aquatic life. TSS levels vary in runoff from undisturbed land. It has been shown that TSS levels increase significantly due to land development.

Specific Conductance (SC) is a numerical expression of the ability of the water to carry an electric current. SC can be used to assess the degree of mineralization, salinity, or estimate the total dissolved solids concentration of a water samples. Because of air pollution, most rain water has a SC a little above zero. A high SC could affect the usability of waters for the drinking, irrigation, and other commercial or industrial use.

Total Organic Carbon (TOC) is a measure of the total organic matter present in water. (All organic matter contains carbon)
This test is sensitive and able to detect small concentrations of organic matter. Organic matter is naturally occurring in animals, plants, and man. Organic matter may also be man made (so called synthetic organics) Synthetic organics include pesticides, fuels, solvents, and paints. Natural organic matter utilizes the oxygen in a receiving water to biodegrade. Too much organic matter could place a significant oxygen demand on the water, and possibly impact its quality. Synthetic organics either do not biodegrade very slowly. Synthetic organics are a source of toxic chemicals that can have adverse affects at very low concentrations. Some of these chemicals bioaccumulate in aquatic-life. If your levels of TOC are high, you should evaluate all sources of natural or synthetic organics you may use at your site.

Oil and Grease (O&G) is a measure of the amount of oil and grease present in your storm water discharge. At very low concentrations, O&G can cause a sheen (that floating "rainbow") on the surface of water (1 qt. of oil can pollute 250,000 gallons of water). O&G can adversely affect aquatic life and create unsightly floating material and film on water, thus making it undrinkable. Sources of O&G include maintenance shops, vehicles, machines and roadways.

If you have any questions regarding whether or not your constituent concentrations are too high, please contact your local Regional Board office. The United States Environmental Protection Agency (USEPA) has published stormwater discharge benchmarks for a number of parameters. These benchmarks may be helpful when evaluating whether additional BMPs are appropriate. These benchmarks can be accessed at our website at http://www.swrcb.ca.gov. It is contained in the Sampling and Analysis Reduction Certification.

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#### **ANNUAL REPORT**

SIDE A

### FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  SHIPPING AND  PETETUING AREA	HAVE ANY BMPS NOT BEEN FULLY IMPLEMENTED?	□ YES	If yes, to either question, complete the next two columns of this form	Describe deficiències in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
PETETUING AREA	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□ YES			
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  ACETY LENE	HAVE ANY BMPS NOT BEEN FULLY IMPLEMENTED?	YES	If yes, to either question, complete the next two columns of this form	Describe deficiencles in BMPs or BMP implementation  Acetylene Plant has  Deen closed. No	Describe additional/revised BMPs or corrective actions and their date(s) o implementation
GENERATION AREA	ARE ADDITIONAL/REVISED BMPs NECESSARY?	YES		lime boundled or	
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP Implementation	Describe additional/revised BMPs or corrective actions and their date(s) o implementation
	ARE ADDITIONAL/REVISED BMPs NECESSARY?	YES			
POTENTIAL POLLUTANT OURGE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPS NOT BEEN FULLY IMPLEMENTED?	☐ YES	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) o implementation
·	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□ YES			

#### 1999-2000 ANNUAL REPORT

SIDE B

## FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: / / INS	SPECTOR NAME:		TITLE:	SIGN	NATURE:
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPS NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
1	ARE ADDITIONAL/REVISED BMPs NECESSARY?	YES	columns of this form		,
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP Implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
:	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO	columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPS NOT BEEN FULLY IMPLEMENTED?	☐YES ☐NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP Implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	ARE ADDITIONAL/REVISED BMPs NECESSARY?	YES NO	columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO	columns of this form:		

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#### 1999-2000

#### ANNUAL REPORT

#### FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.

- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation
- Make additional copies of this form as necessary.

  Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water

	T	#1	#2	#3	#4
Observation Date: February 2000		m 1	#2	#5	"-
1	Drainage Location Description				
Observers Name		P.M.	□PM	□ PM	☐ P.M.
	Observation Time	: A M	: <u> </u>	A M	:
Title NO RAN THIS MONTH		. □ P.M : □ A.M.	: PM.	: PM	□ P.M : □ A.M.
Signature.	Time Discharge Began Were Pollutants Observed	<del></del>	=================================		
olghature.	(If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
		#1	#2	#3	#4
Observation Date: March 2000	Drainage Location Description				
					<u> </u>
Observers Name	Observation Time	☐ P.M : ☐ A.M	: PM	□ P M.	P.M.
Title. NO DISCHARLY THE MANA	Observation Time	PM	ПРМ	PM	P.M
	Time Discharge Began	: 🗖 A.M.	: A.M.	: <u> </u>	;
Signature.	Were Pollutants Observed (If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
<u> </u>	(II yes, complete reverse side)	#1	<u> </u>	#3	#4
Observation Date: April 2000		# 1	#2 	#3	#4
1	Drainage Location Description				
Observers Name, PAN BUT NO		□ P.M	□ P,M.	PM	☐ PM
}	Observation Time	: DAM		: AM.	: _ A.M
Title. John was Ba OBSENAMU		. □PM	□ P.M.	□ P.M.	☐ P.M.
Signature Grap Vited	Time Discharge Began Were Pollutants Observed	: A.M.	: <u> </u>	: <u> </u>	: <u></u> A.M.
Cignaturo - 107 P C C C C C C C C C C C C C C C C C C	(If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
		#1	#2	#3	#4
Observation Date: May 2000	Drainage Location Description				
NO CLOW IN MAY,	Diamage Location Description				
Observers Name		. □ PM	. P.M	PM	☐ P.M.
Title	Observation Time	: A M.		AM	: AM.
Signature	Time Discharge Began	: A.M.		: A.M.	:
	Were Pollutants Observed (If yes, complete reverse side)	YES NO D	YES NO	YES NO .	YES NO

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#### 1999-2000 ANNUAL REPORT

### FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

Ţ	DATE/TIME OF OBSERVATION	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
	(From Reverse Side)	EXAMPLE: Discharge from material storage Area #2	Indicate whether storm water discharge is clear, cloudy; or discolored; causing staining, containing floating objects or an oil sheen, has odors, etc.	EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	
	AM				
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	AM PM				
	— ☐ AM PM	DICE 00931			
		0931	•		
	_: AM	,			

#### SIDE A

# 1999-2000 ANNUAL REPORT FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm.

  event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.

- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation
- Make additional copies of this form as necessary
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

· · · · · · · · · · · · · · · · · · ·	4				
Observation Date: Outshare 4000		#1	#2	#3	#4
Observation Date: October1999	Drainage Location Description				
Observers Name: 6120000 CLEME NO		P.M.	P.M.	P.M.	
Title PRODUCTION LEAD	Observation Time	; ; A M.	: <u> </u>	: 🗀 A.M.	: 🗆 A.M
	Time Discharge Began	☐ P M : ☐ A.M.	: PM.	; ☐ P.M.	□ P M. : □ A M
Signature.	Were Pollutants Observed (If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
Observation Date: November1999	المراجع المراجع المجاد المجاد المجاد المستحود المستحد المراجع المجاد المجاد المستحد ال	#1	#2	#3	#4
NOT ENDUST RON FOR A DELIARUE	Drainage Location Description	_			
Observers Name Limburo CLEMANE	Observation Time	□ P M : □ A M	. D PM	: DAM	:
Title PRODUCTUS COS	÷ 5 .	: PM : AM	; PM	: PM	□ P.M. : □ A M
. Signature.	Time Discharge Began Were Pollutants Observed	YES NO	YES   NO	YES NO	YES NO
	(Îf yes, complete reverse side)	#1	#2	#3	#4
Observation Date: December1999		# (	#2	#3	<del>                                      </del>
"NO ROM DUMME THIS MUNTH	Drainage Location Description				
Observers Name	Observation Time	☐ P M : ☐ A M	: □ P.M : □ A.M.	☐ P M. : ☐ A M.	□ P.M. : □ A.M.
Title	Observation Time	□РМ	☐ P.M.	PM	ПРМ
Signature	Time Discharge Began Were Pollutants Observed	:	: <u> </u>	; <u>A.M.</u>	:
Signature	(If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
Observation Date: January 25 2000		#1 MAN SOUTH	#2	#3	#4
	Drainage Location Description	DISCUMNOS			
Observers Name LIMONTO CLEMENTO	Observation Time	영 :3c 및 PM	: P.M	: DAM	: P.M.
Title, Propund Cons	Time Discharge Began	7.00 RAM	□ P.M. : □ A M	; P.M.	
Signature	Were Pollutants Observed (If yes, complete reverse side)	YES NO NO	YES NO	YES NO	YES NO

### FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

	DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION  EXAMPLE: Discharge from material storage Area #2	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS  Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS  EXAMPLE. Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
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### FORM 3-QUARTERLY VISUAL OBSERVATIONS OF <u>UNAUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Remits
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- · Make additional copies of this form as necessary

QUARTER: JULY-SEPT.  DATE/TIME OF QBSERVATIONS  AM 8/3499 1:30 \( \beta \) PM	Observers Name: ShawE IVANKOVICH  Title: FNGINEER  Signature: Shave charchovich	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	□YES ⊠NO	If YES to either question, complete reverse side.
QUARTER: OCTDEC.  DATE/TIME OF OBSERVATIONS  12,06,99,90 AM PM	Observers Name: Karl Bruzkotter  Health, Safet, Environmental  Title: Specialist  Signature: Rand Bruskattin	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	YES NO	If YES to either question, complete reverse side.
DATE/TIME OF OBSERVATIONS  //5/00/10/00   PM	Observers Name: LINOSUFO CUEMENTS  Title: PRODUCTON COMENTS  Signature:	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	□YES XNO	If YES to either question, complete reverse side.
QUARTER: APRILJUNE  DATE/TIME OF OBSERVATIONS  AM PM	Observers Name: LINDSCRO CLEMENTE  Title: PROJUPON LENO  Signature:	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	□YES ZINO	If YES to either question, complete reverse side.

345 SIDE B

# NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD	SOURGE AND LOCATION OF UNAUTHORIZED	Indicate whether unguthor		DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED
The state of the s	EXAMPLE (1995) Vehicle Wash Water	NW Corner of	AT THE UNAUTHORIZED NSWD SOURCE	AT THE UNAUTHORIZED  NSWD AREA AND DISCHARGE LOCATION	PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
9 00 XAM	Dilated line water from hone Plant	Acetylene Plant	Cloudy lime maken	residue	Acetylene Plant - shut - down No line generated only more
_:_					
		ŕ	,		
AM PM					
_:_					

## FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

• Observe each authoriz discharge location.	visual observations are required of each authorized NSWD. ed NSWD source, impacted drainage area, and	<ul> <li>Authorized NSWDs must meet the conditions provided in Section of the General Permit.</li> <li>Make additional copies of this form as necessary.</li> </ul>	n D (pages 5-6
JULY-SEPT: DATE:	Observers Name: Shave Ivankovich  Title: Engineer  Signature: Mans Junhourel	I WERE ANT AUTHURIZED NOWDS	complete e side of m.
QUARTER: OCTDEC. DATE: iz, 27, 00	Observers Name: LINDOCIZO CLOMENTO  Title: PRODUCTON LEGO  Signature:	THERE AND AUTHORIZED NOTEDS .	, complete e side of ' m.
QUARTER:  JANMARCH  DATE:  / PS DO	Observers Name: LINDOLFO CLEMENTE Title: PROOFETSS LEAD Signature:	WERE ANT AUTHURIZED NOWDS	complete e side of m.
DATE.	Observers Name: Z/NODLGO CLEMENTE  Title: Pronupou Ceno  Signature.		complete e side of m.

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#### 1999-2000 ANNUAL REPORT

### FORM 2-QUARTERLY VISUAL OBSERVATIONS OF <u>AUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs)

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD	NAME OF AUTHORIZED NSWD	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
	EXAMPLE Air conditioner Units on Building C	EXAMPLE: Air conditioner condensate	At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
_:_ □ AM □ PM				,	
			,		
AM PM					
_:_ □AM □ PM			7, 1		1
		- 44			
_:AM PM	DIC				
	DICE 00937				
AM PM	37				

TSS - Total Suspended Solids

#### 1999-2000 ANNUAL REPORT

FORM 1-SAMPLING & ANALYSIS RESULTS

#### SIDE A

### FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example, <.05)
- If you did not analyze for a required parameter, do not report "0" Instead, leave the appropriate box blank •

SC - Specific Conductance

When analysis is (lone using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

TOC - Total Organic Carbon

Make additional copies of this form as necessary.

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event									
			BASIC PARAMETERS						OTHER PARAMETERS			
			рН	TSS	sc	O&G	TOC	,				
Storm worst Drainack Ditch Southern propriet Boundary	1 ,25, DO 8:30, MAM 1 PM	7.0° □ PM	7.06	36 Mg   L	110	70	-					
,	/_/ AM _: DPM	AM :PM						,				
	/_/ AM DPM	AM :PM			,							
	/_/ AM : DPM	:PM			,							
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l					
TEST METHOD DETECTION LIMIT:			N/A	2 4miles	2.0	5						
TEST METHOD USED:			2 W AZOOFE	SEPA 1402	Sm 251 g	EPA 1664						
ANALYZED BY (SELF/LAB): /W C.			LAB	LAB	LAG	LAG						

O&G - Oil & Grease

#### ANNUAL REPORT

SIDE B

#### FORM 1-SAMPLING & ANALYSIS RESULTS

#### SECOND STORM EVENT

Y Hanaiyu	sai leanità sit	a igžž mau me	deréction intil	r for non	oeiecianie)	i, snow i	he value aş less than	
. the nyme	rical value of	f the detection	limit (example	. <.05)				

When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

• If you did not analyze for a required parameter, do not report "0" Instead, leave the appropriate box blank

NAME OF PERSON COLLECTING'S	SAMPLE(S):	1	मारी	LE:	}	;	SIGNAT	/URE:			
	TIME TIME			11 12	AN	NALYTICAL For Second					
DESCRIBE DATE/T	WALE I DISCUSKEE	1	BAS	SIC PARAMET	TERS	** . <u>** . * . *</u>		оті	IER PARAME	TERS	
LOCATION COLLEC Example: NW Out Fall	79. 4 7 May 1	pН	TSS	sc	O&G	TOC					
				,		, i					
100 mm	-/AMPM.			7 150 g			.,				
	/AM PM								,,,	1	L
	/AM AM PM						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			o de la composición dela composición de la composición dela composición de la composición de la composición dela composición dela composición de la composic	· · · ·
TEST REPORTING UNITS:	Andreas Control of the Control of th	pH Units	mg/l	umho/cm	mg/l	mg/l	,	, J. 1		, .	
TEST METHOD DETECTION	LIMIT		₹ £	i i i i i i i i i i i i i i i i i i i							
TEST METHOD USED.		in traday of		S		,		1			
ANALYZED BY (SELF/LAB)			4	1 54 AMIC A	3 es. 1	'		1	1	1 '	

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

'n.

TOC - Total Organic Carbon

**DICE 00939** 



#### Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: Monday, February 14, 2000 Received Date: Tuesday, January 25, 2000

Phone: (562) 945-1383

FAX: (562) 693-1156

Log By: tn Log Time: 16 59

Client: Air Liquide

8832 Dice Road

Santa Fe Springs, CA 90670

Attn.: Lindolfo Clemente

Project: SWPPP

P.O. #:

Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A000566-001

Sample ID: South End Storm Water Drain

Matrix: Storm Water

Sampled By: Lindolfo Clemente

Date: 1/25/00

Time: 8:30

Parameter	Result	Units	Dilution Factor	PQL Method	Analyzed	Worksheet #
pН	7 06	Units	1	SM 4500 H B	1/25/00 kk	WS10900
Total Suspended Solids	36	mg/L	1	5 "EPA 160.2	1/28/00 km	WS10987
Conductivity Prep. SPE	110	umho/cm	1	2.0 ,SM 2510 B	2/1/00 lm	WS11046
Oil & Grease	ND	mg/L	1	5 EPA 1664	2/11/00 In	WS11341

ND = Not Detected

PQL = Practical Quantitation Limit.

TR = Trace detection, detected but below the PQL

J = Estimated value, detected but below the PQL

NA = Not Applicable.

ELAP # 1132

LACSD # 10143

Sub = Subcontracted analysis, original report enclosed

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance

**DICE 00940** 

Lab# A000566

Page 1 of 1

#### Air Liquide America Corporation 8832 Dice Road Santa Fe Springs, CA 90670 Industrial Gas Fill Plant WDID # 4 19S000389

#### Explanation of "no" answers indicated on the 1999-2000 Annual Report

#### E.1 - Sampling and Analysis Results

Pollution prevention team failed to sample a second storm event due to personnel changes within the pollution prevention team. The team is being revised during the ACSCE review to ensure that team membership is stable and that required samples are taken during the 2000-01 reporting year.

E.10 – following a review of plant activities, it has been determined that samples do not need to be analyzed for Al, Fe, and N+N.

#### G.1-

Junior Clemente, Plant Shift Lead, made the following observations:

October – There was no rain observed during this month.

November – There was not enough rain to cause a discharge.

**December** – There were no storms during normal business hours.

February – There was no rain or not enough rain to cause a discharge this month.

March – There was no rain or not enough rain to cause a discharge this month.

April – Pollution prevention team personnel did not conduct the required observations this month. The team will be revised to better emphasize the importance of conducting the required observations, and to ensure it takes place even in transition. May – There was no rain or not enough rain to cause a discharge this month.

BMPs and the pollution prevention team will be reviewed and revised, as necessary, to ensure compliance with the General Permit.



### State of California STATE WATER RESOURCES CONTROL BOARD

1998-1999

#### ANNUAL REPORT

FOR

### STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Submitted 6/29/99
by Shave Translavich

Reporting Period July 1, 1998 through June 30, 1999

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. Retain a copy of the completed Annual Report for your records.

If any information contained in Items A, B, and C below is incorrect, please cross out or highlight the incorrect information (do not white out or erase) and provide the correct information next to or above the incorrect information.

If you have any questions, please contact your Regional Board Storm Water Program Contact. The address of the Regional Board (where the Annual Report must be filed) along with the name and telephone number of the contact is indicated below.

#### REGIONAL BOARD INFORMATION:

LOS ANGELES REGIONAL WATER BOARD 101 CENTRE PLAZA DR. MONTEREY PARK, CA 91754-2156

DAN RADULESCU (323) 266-7630

#### GENERAL INFORMATION

A. Facility WDID No:

**B.** Facility Operator Information:

Contact Person:

FOIA ex 6, Personal Privacy

4 19S000389

EIQUID AIR CORPORATION— AIR LIQUIDE AMERICA CORP.
8832 DICE ROAD
SANTA FE SPRINGS, CA 90670

C. Facility Information:

Contact Person:

FOIA ex 6, Personal Privacy

SIC Code(s):

2813

Industrial Gases

EIQUID AIR CORPORATION AIR LIQUIDE AMERICA CORP. 8832 DICE ROAD \_ SANTA FE SPRINGS, CA 90670

#### 1998-99 ANNUAL REPORT

SPECIFIC INFORMATION

#### MONITORING AND REPORTING PROGRAM

D.	SAI	MPLING A	AND AN	VALYSIS E	XEMPTIC	ONS AND	REDUCTION	<u>1S</u>							
	1.						mpt from coll eneral Permi		nd a	analyzinç	g samples	from 1	two stor	rm eveni	ts in
		YE	ES	Go to Iter	m D.2			X		NO	Go to S	ection	E		
	2.							and analyzing samples from <b>two</b> storm events. Attach a check boxes ii, jii, iv, or v.					ch a		
		i	Partio	cipating in	an Approv	red Group	Monitoring F	Plan		Group	Name: _		<del></del>		
		il.	Subn	nitted No E	xposure	Certificati	on (NEC)			Date Si	ubmitted:		1		
			Re-e	valuation D	)ate:	1_1	-								
			Does	facility cor	ntinue to s	atisfy NEC	conditions?	? [		YES		МО			^
		ii.	Subn	nitted Sam	pling Red	luction Ce	ertification (	SRC)		Date Si	ubmitted:		1		
			Re-e	valuation D	oate <sup>.</sup>	<i>I I</i>	-								
			Does	facility cor	ntinue to s	atisfy SRC	conditions?	' [		YES		NO			
		ıv.	Rece	eived Regio	nal Board	l Certificati	on			Certifica	ation Date	e:	1	1	
		v 🔲	Rece	eived Local	Agency C	Certification	1			Cetifica	tion Date	:		<i></i>	
	3.	if you cho	ecked	boxes i or	iii above,	were you s	scheduled to	sample o	one	storm e	event duri	ng the	reportir	ıg year?	
		YI	ES	Go to Se	ction E				]	NO	Go to S	ection	F		-
	4.	If you ch	ecked	boxes ii, iv	, or v, go	to Section	F.								
E.	SAN	PLING A	ND AN	IALYSIS RI	ESULTS										
	1	How mar	ny stor	rm events o	did you sa	mple?	2		D.2	li or iii. a	tach expl above, on				
	2						first storm of 1.5 of the Ge				t produce	d a dise	charge	during	
		X Y	ES							NO	Attach	explan	ation		
	3	How mar	ny stor	rm water di	scharge lo	ocations ar	e at your fac	ality?		1					

-2-

4.		mple from each of the facilitys' storm water discharge locations?	X	YES, go to Ite	m E	i.6 NO
5.		as sample collection or analysis reduced in accordance the Section B.7.d of the General Permit?		YES [		NO, attach explanation
		YES", attach documentation supporting your determination at two or more drainage areas are substantially identical.				
	Da	ite facility's drainage areas were last evaluated//				<del></del>
6.	We	ere all samples collected during the first hour of discharge?	X	YES [		NO, attach explanation
7.		as <u>all</u> storm water sampling preceded by three (3) rking days without a storm water discharge?	×	YES		NO, attach explanation
8.		ere there any discharges of stormwater that had been nporarily stored or contained? (such as from a pond)		YES	X	NO, go to Item E.10
9.	cont	you,collect and analyze samples of temporarily stored or tained storm water discharges from two storm events? one storm event if you checked item D.2.i or iii. above)		YES [		NO, attach explanation
10.	Spe	tion B.5. of the General Permit requires you to analyze storm wat earlic Conductance (SC), Total Organic Carbon (TOC) or Oil and C m water discharges in significant quantities, and analytical param	Grease	(O&G), other p	ollu	tants likely to be present in
	a.	Is your facility required to analyze additional parameters listed in Table D of the General Permit?		YES	×	NO, Go to Item E.11
	b.	Did you analyze all storm water samples for the applicable parameters listed in Table D?	Ø	YES [	$\Box$	NO
	C ,	If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:				
		The parameter has not been detected in significant of events. Attach explanation	quantiti	es from the last	two	consecutive sampling
		The parameter is not likely to be present in storm wa discharges in significant quantities based upon the fa				
		Other. Attach explanation				
11.		each storm event sampled, attach a copy of the laboratory analy ults using Form 1 or its equivalent. The following must be provide				
	•			results. ethods used.		
	•	Parameters tested. • T	est det	tection limits.		
	•			testing. of the laborator	y an	nalytical results.

#### F. QUARTERLY VISUAL OBSERVATIONS

1.	Sec	Section B'3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.						
	a.	Do authorized non-storm water discharges occur at your facility?						
		YES NO Go to Item F.2						
	b.	Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. Attach an explanation for any "NO" answers. Indicate "N/A" for quarters without any authorized non-storm water discharges.						
		July -September YES NO N/A October-December YES NO N/A						
		January-March ☐ YES ☐ NO ☐ N/A April-June ☐ YES ☐ NO ☐ N/A						
	<ul> <li>Use Form 2 to report quarterly visual observations of authorized non-storm water discharges or provide the following information.</li> </ul>							
		i. name of each authorized non-storm water discharge ii. date and time of observation iii. source and location of each authorized non-storm water discharge iv. characteristics of the discharge at its source and impacted drainage area/discharge location v. name, title, and signature of observer vi. any new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.						
2	Sec	authorized Non-Storm Water Discharges ction B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the sence of unauthorized non-storm water discharges and their sources						
	a.	Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non- storm water discharges and their sources. Attach an explanation for any "NO" answers.						
		July -September YES NO October-December YES NO						
		January-March X YES NO April-June X YES NO						
	b.	Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?						
		☐ YES NO Go to item F.2.d						
	C.	Have each of the unauthorized non-storm water discharges been eliminated or permitted?						
		YES NO Attach explanation						
	d.	Use Form 3 to report quarterly unauthorized non-storm water discharge visual observations or provide the following information.						
		name of each unauthorized non-storm water discharge  ii. date and time of observation.  iii. source and location of each unauthorized non-storm water discharge.  iv. characteristics of the discharge at its source and impacted drainage area/discharge location.  v. name, title, and signature of observer.  vi. any corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.						

#### G. MONTHLY WET SEASON VISUAL OBSERVATIONS

H.

areas impacted by run-on

Section B 4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during

	1			monthly visual obs			discharges occur	red at <u>all</u> dis	scharge -
		October	YES	NO	 !	ebruary	YES	NO	
		November	$\boxtimes$		f	March	$\boxtimes$		
		December	$\boxtimes$		,	April	$\boxtimes$		
		· January	$\boxtimes$		ŀ	<i>l</i> lay		$\boxtimes$	NO DISCH
	2.	Report mon	thly wet sea	son visual observa	ations using F	orm 4 or pro	ovide the following	g informatio	-
				cation of observation	on				
			and title of c		ador polor e	te ) and cou	rce of any pollute	nte obconie	, al
		d. any ne	ew or revise	he discharge (i.e., d BMPs necessary vised BMP implem	y to reduce or	prevent poll			
ANI	NUAL C	COMPREHENS	IVE SITE (	COMPLIANCE E	VALUATION	i (ACSCE)			
H.	ACSC	E CHECKLIST							
	June 3			equires the facility	operator to c	onduct one	ACSCE in each re	eportina per	iod (July 1
	steps !	ised and impleme	ented, as ne aplete a ACS	cessary, within 90 SCE. Indicate whe	6 months of ea days of the e	ich other. T valuation. T	he SWPPP and r he checklist belo	monitoring pow includes	program shall the minimum
	steps explar	ised and implement necessary to connation for any "P	ented, as ne nplete a ACS NO" answei	cessary, within 90 SCE. Indicate whens.	6 months of ea days of the e ether you have	ich other. T valuation. T performed	he SWPPP and rine checklist beloe each step below.	monitoring p w includes Attach an	program shall the minimum
	steps explar	Have you inspect the following areas where the last year. outdoor wash process/man loading, unlo waste storag dust/particular	ented, as ne neplete a ACS NO" answer ed all potent as should be spills and le ne and rinse a ufacturing a ading, and te e/disposal atte generatir	cessary, within 90 SCE. Indicate whens.  tial pollutant source inspected careas.  reas ransfer areas.	S months of ea days of the e ether you have tes and indust	building re material si vehicle/eq truck park rooftop eq vehicle fue	he SWPPP and rine checklist beloe each step below.	monitoring power includes Attach and and constructions areas reas e areas	orogram shall the minimum  NO  uction
	steps a explar	Have you inspect the last year.  outdoor wash process/man loading, unlo waste storage dust/particular erosion area.	ented, as ne nplete a ACS NO" answer ed all potent as should be spills and le n and rinse a ufacturing a ading, and the e/disposal a ate generatures.	cessary, within 90 SCE. Indicate whens.  tial pollutant source inspected careas.  reas ransfer areas.	6 months of each days of the elether you have the sand industrial during	building rematerial struck park rooftop equence on the control of	the SWPPP and in the checklist below. The checklist	monitoring power includes Attach and and constructions areas reas e areas	orogram shall the minimum  NO  uction
	steps a explar	dave you inspect the last year.  outdoor wash process/man loading, unlo waste storage dust/particular erosion area.  Have you reviewed the last year.  outdoor wash process/man loading, unlo waste storage dust/particular erosion area.  Have you reviewed the last you reviewed the last year.	ented, as ne applete a ACS NO" answer ed all potentias should be spills and le and rinse a aufacturing a ading, and the enteretains.	cessary, within 90 SCE. Indicate whens.  tial pollutant source inspected  aks have occured areas.  reas  ransfer areas.  areas.  areas.  ppp to assure that	6 months of each of the eather you have eather you have during this ball of the eather with the same and industrial the same and the same areas?	building rematerial struck park rooftop equence on the control of	the SWPPP and in the checklist below each step below.  areas? YE  spair, remodeling, torage areas uipment storage ing and access a uipment areas eling/maintenance water discharge	monitoring power includes Attach and and construction areas reas e areas generating	orogram shall the minimum  NO uction

-5-

structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

4.	Have you reviewed all General Permit compliance reco since the last annual evaluation?	rds generated	<b>⊠</b> YES	Пио
	The following records should be reviewed:			
	<ul> <li>quarterly authorized non-storm water discharge visual observations</li> <li>monthly storm water discharge visual observation</li> <li>records of spills/leaks and associated clean-up/response activities</li> </ul>	water discharg Sampling and	othorized non-storm ge visual observation Analysis records naintenance inspection nee records	
5.	Have you reviewed the major elements of the SWPPP to compliance with the General Permit?	to assure	YES	☐ NO
	The following SWPPP items should be reviewed:			
	<ul> <li>pollution prevention team</li> <li>list of significant materials</li> <li>description of potential pollutant sources</li> </ul>	<ul> <li>identification a</li> </ul>	f potential pollutant s and description of the for each potential pol	BMPs to be
6.	Have you reviewed your SWPPP to assure that a) the E in reducing or preventing pollutants in storm water discharges, and b) the BMPs are being	harges and authorized	YES	NO
	The following BMP categories should be reviewed:			
	<ul> <li>good housekeeping practices</li> <li>spill response</li> <li>employee training</li> <li>erosion control</li> <li>quality assurance</li> </ul>	<ul> <li>preventative r</li> <li>material hand</li> <li>waste handlin</li> <li>structural BMI</li> </ul>	ling and storage prac g/storage	ctices
7.	Has all material handling equipment and equipment need implement the SWPPP been inspected?	eded to	<b>⊠</b> YES	□ №
ACS	CE EVALUATION REPORT			
The	facility operator is required to provide an evaluation repo	ort that includes:		
•	identification of personnel performing the evaluation the date(s) of the evaluation necessary SWPPP revisions		nplementing SWPPP of non-compliance ar	
Use	Form 5 to report the results of your evaluation or develo	p an equivalent form.		
ACS	CE CERTIFICATION			
	facility operator is required to certify compliance with the fy compliance, both the SWPPP and Monitoring Program			
	ed upon your ACSCE, do you certify compliance with the vities Storm Water General Permit?	Industrial	YES	NO
If yo	u answered "NO" attach an explanation to the ACSCE pliance with the Industrial Activities Storm Water Genera .	Evaluation Report why I Permit.	you are not in .	

J.

#### ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer	ver NA (Not
Applicable) to questions 2-4 if you are not required to provide those attachments.	

1.	Have you attached Forms 1,2,3,4, and 5 or their equivalent?	X	YES	(Mandatory)		
	If you conducted sampling and analysis, have you attached the laboratory analytical reports?	×	YES.	NO		NA
3	If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications?		YES	□ NO	×	NA
4.	Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E 10.c, F.1.b, F.2.a, F.2.c, G 1, H.1-H.7, or J?	M	, YES	□ №	Ø	NA

#### ANNUAL REPORT CERTIFICATION

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C 9) and I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name:	SHANE	IVANKOVICH		
Signature:	Shone	dvanhoviel	Date: 6/24/99	_
Title:	ENGINEER			

#### DESCRIPTION OF BASIC ANALYTICAL PARAMETERS

The Industrial Activities Storm Water General Permit (General Permit) requires you to analyze storm water samples for at least four parameters. These are pH, Total Suspended Solids (TSS), Specific Conductance (SC), and Total Organic Carbon (TOC). Oil and Grease (O&G) may be substituted for TOC. In addition, you must monitor for any other pollutants which you believe to be present in your storm water discharge as a result of industrial activity and analytical parameters listed in Table D of the General Permit. There are no numeric limitations for the parameters you test for.

The four parameters which the General Permit requires to be tested are considered *indicator* parameters. In other words, regardless of what type of facility you operate, these parameters are nonspecific and general enough to usually provide some indication whether pollutants are present in your storm water discharge. The following bnefly explains what each of these parameters mean:

pH is a numeric measure of the hydrogen-ion concentration. The neutral, or acceptable, range is within 6.5 to 8.5. At values less than 6.5, the water is considered acidic, above 8.5 it is considered alkaline or basic. An example of an acidic substance is vinegar, and a alkaline or basic substance is liquid antacid. Pure rainfall tends to have a pH of a little less than 7. There may be sources of materials or industrial activities which could increase or decrease the pH of your storm water discharge. If the pH levels of your storm water discharge are high or low, you should conduct a thorough evaluation of all potential pollutant sources at your site.

Total Suspended Solids (TSS) is a measure of the undissolved solids that are present in your storm water discharge. Sources of TSS include sediment from erosion of exposed land, and dirt from impervious (i.e. paved) areas. Sediment by itself can be very toxic to aquatic life because it covers feeding and breeding grounds, and can smother organisms living on the bottom of a water body. Toxic chemicals and other pollutants also adhere to sediment particles. This provides a medium by which toxic or other pollutants end up in our water ways and ultimately in human and aquatic life. TSS levels vary in runoff from undisturbed land. It has been shown that TSS levels increase significantly due to land development.

Specific Conductance (SC) is a numerical expression of the ability of the water to carry an electric current. SC can be used to assess the degree of mineralization, salinity, or estimate the total dissolved solids concentration of a water sample. Because of air pollution, most rain water has a SC a little above zero. A high SC could affect the usability of waters for drinking, irrigation, and other commercial or industrial use.

Total Organic Carbon (TOC) is a measure of the total organic matter present in water. (All organic matter contains carbon) This test is sensitive and able to detect small concentrations of organic matter. Organic matter is naturally occurring in animals, plants, and man Organic matter may also be man made (so called synthetic organics). Synthetic organics include pesticides, fuels, solvents, and paints. Natural organic matter utilizes the oxygen in a receiving water to biodegrade. Too much organic matter could place a significant oxygen demand on the water, and possibly impact its quality. Synthetic organics either do not biodegrade or biodegrade very slowly. Synthetic organics are a source of toxic chemicals that can have adverse affects at very low concentrations. Some of these chemicals bioaccumulate in aquatic life. If your levels of TOC are high, you should evaluate all sources of natural or synthetic organics you may use at your site.

Oil and Grease (O&G) is a measure of the amount of oil and grease present in your storm water discharge. At very low concentrations, O&G can cause a sheen (that floating "rainbow") on the surface of water (1 qt. of oil can pollute 250,000 gallons of water). O&G can adversely affect aquatic life and create unsightly floating material and film on water, thus making it undnnkable. Sources of O&G include maintenance shops, vehicles, machines and roadways.

If you have any questions regarding whether or not your constituent concentrations are too high, please contact your local Regional Board office.

# DICE 00950

#### 1998-99

### ANNUAL REPORT FORM 1-SAMPLING & ANALYSIS RESULTS

#### **FIRST STORM EVENT**

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: < 05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), Indicate "PA" in the appropriate test method used box.
  - Make additional copies of this form as Recessary

NAME OF PERSON COLL	COTING SAMPLE	IS. MINE	CAFCOL
NAME OF PERSON COLL	ECHNIG SAMPLE	(S): / 11 / C-C	

TITLE: PRODUCTION LEAD

SIGNATURE:

							ALYTICAL For First St	RESULTS			
DISCHARGE OF SAMPLE DISC			BASIC PARAMETERS			OTHER PARAMETERS					
	STARTED	рН	TSS	sc	O&G	тос		!			
Main South Discharge	11/11/98 AM 3:30 🛭 PM	□AM 3:00 ⊠PM	8.56	207	7410	ND (45)			:		
	/_/ AM : DPM	AM :□PM									
Į.	/	AM : DPM									
•	/_/ AM : PM	AM :□PM	-						; 		
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l		'		
TEST METHOD DETECTION LIMIT:			N/A	·5	2	5					
TEST METHOD USED.		5M4500-H	EPA 160.2	SM 2510B	EPA 413.1					,	
ANALYZED BY (SEI	LF/LAB)		LAB	LAB	LAB	LAB			1		

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

#### 1998-99 ANNUAL REPORT

#### FORM 1-SAMPLING & ANALYSIS RESULTS

#### SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than
  the numerical value of the detection limit (example: <.05)</li>
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), Indicate "PA" in the appropriate test method used box.

If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank

NAME OF PERSON CO	LLECTING SAMPLE(S)	MIKE	GREGOR
NAME OF LEVOOR OF			

TITLE: PRODUCTION LEAD

SIGNATURE:

				ANALYTICAL RESULTS For Second Storm Event									
DISCHARGE OF SAMPLI	DATE/TIME OF SAMPLE	TIME DISCHARGE	BASIC PARAMETERS					OTHER PARAMETERS					
	COLLECTION	STARTED	рН	TSS	SC	O&G	TOC						
MAJU SOUTH DISCHARGE	<u>4/8/99</u> ☑ AM <u>7:∞</u> □ PM	⊠AM <u>7:∞</u> □ PM	8.55	44	240	ND ( <b>&lt;0.</b> 5)						ţ	
	/_/ AM : DPM	AM :PM										!	
	/	AM :PM									1		
	/_/ AM : DPM	AM :PM							:				· \
TEST REPORTING	UNITS:		pH Units	mg/i	umho/cm	mg/l	mg/l						
TEST METHOD DE	TECTION LIMIT		2/0	5	2.0	0.5							
TEST METHOD USED:			5M4500HB	EPA 160.2	SM ZSIOB	EPA 413.2							
ANALYZED BY (SEL			LAB	LAB	LAB	LAB							,

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

#### 1998-1999 ANNUAL REPORT

### FORM 2-QUARTERLY VISUAL OBSERVATIONS OF <u>AUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs) - NO

- NO AUTHORIZED DISCHARGES OCCUR,

•	Quarterly dry	weather visua	l observations	are required	of each	authorized	NSWE
---	---------------	---------------	----------------	--------------	---------	------------	------

Observe each authorized NSWD source, impacted drainage area, and discharge location

VISUAL INSPECTED BMP Dave
 Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.

• Make additional copies of this form as necessary.

QUARTER.  JULY-SEPT.  DATE:  8 1/0198	Observers Name: MIKE CREBOR  Title: PRODUCTION LEAD  Signature:	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?	☐ YES	If YES, complete reverse side of this form.
QUARTER:  OCTDEC.  DATE:  1015   98	Observers Name: SHANE IVANKOVICH  Title: EngiNEEC  Signature: Share Granfovich	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?	YES	If YES, complete reverse side of this form.
QUARTER:  JANMARCH  DATE:  2/18/99	Observers Name: MIKE CRECUA  Title: PRODUCTION LEAD  Signature:	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?	YES NO	If YES, complete reverse side of this form.
QUARTER:  APRIL-JUNE  DATE:  C       99	Observers Name: Share Irankovich  Title: Fraginger  Signature: Mare Manhorich	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?	☐ YES	If YES, complete reverse side of this form.
00952			:	le state

#### 1998-1999 ANNUAL REPORT

## FORM 2-QUARTERLY VISUAL OBSERVATIONS OF <u>AUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs)

DATE /TIME OF OBSERVATION	SOURCE AND NAME OF LOCATION OF AUTHORIZED NSWD		CHÁRA Indicate whether autho discolored, causing sta	ACTERISTICS rized NSWD is clear, cloudy, or aining, contains floating objects een, has odors, etc.	DESCRIBE ANY REVISED OR NEV BMPs AND PROVIDE THEIR IMPLEMENTATION DATE	
<del> </del>	EXAMPLE: Air conditioner Units on Building C	EXAMPLE: Air conditioner condensate	At the NSWD Source	At the NSWD Drainage Area and Discharge Location		
_:_ □ AM □ PM						
_:_						
					í	
□ AM □ PM						
□AM □PM	DICE					
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# DICE 00954

#### 1998-1999 ANNUAL REPORT

### FORM 3-QUARTERLY VISUAL OBSERVATIONS OF <u>UNAUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Permit.
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas.
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: JULY-SEPT.  DATE/TIME OF OBSERVATIONS  DATE  DATE	Observers Name: MIKE CREBOR  Title: PRODUCTION LEAD  Signature:	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	☐YES ☑N	complete
QUARTER: OCTDEC.  DATE/TIME OF OBSERVATIONS  AM 10 5 98 /:∞	Observers Name: SHANE IVANEOUICH  Title: Engineer  Signature: Many Juntovil	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	□YES ⊠N	complete reverse
QUARTER: JANMARCH  DATE/TIME OF OBSERVATIONS  2/18/99/11:00  PM	Observers Name: MIKE GREGOR  Title: PRODUCTION LEAD  Signature:	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	□YES ØN	complete
QUARTER: APRIL-JUNE  DATE/TIME OF OBSERVATIONS  SAM 6/11/19 11:00 PM	Observers Name: Showe Ivenkovich  Title: Fing, NEGE  Signature: Manne Shankovich	WERE UNAUTHORIZED NSWDs OBSERVED? WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?	☐YES ⊠N	complete

#### 1998-1999 ANNUAL REPORT

# FORM 3 QUARTERLY VISUAL OBSERVATIONS OF <u>UNAUTHORIZED</u> NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	UNAUTHORIZED LOCATION NSWD OF		DESCRIBE UNAUTHORIZED Indicate whether unauthorion discolored, causing stains; co sheen, has	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS.		
	EXAMPLE: Vehicle Wash Water	EXAMPLE: NW Corner of Parking Lot	AT THE UNAUTHORIZED NSWD SOURCE	AT THE UNAUTHORIZED  NSWD AREA AND  DISCHARGE LOCATION	PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.	
_:_ □AM □PM	-					
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AM						
\ AM \ PM				'		
AM						

JICE 00955

# ANNUAL REPORT FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.

Visual observations must be conducted during the first hour of discharge

- Discharges of temporarily stored or contained storm water must be observed at the time of discharge
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.

at all discharge locations					
Observation Date: October 28 1998	Drainage Location Description	#1 MAN SOUTH DISCHARGE	#2	#3	#4
Observers Name MIKE GREGOL	Observation Time	/0 :00 ⊠ A.M.	□ P.M. : □ A.M	: PM	□ P M. : □ A M
Tille PROPULTION LEAD	Time Discharge Began	/0 :00 ∑ A.M.	☐ P M. : ☐ A.M.		:
Signature Mills	Were Pollutants Observed (If yes, complete reverse side)	YES NO X	YES NO	YES NO	YES NO
	l	<u> </u>		<del></del>	<del></del>
Observation Date: November // 1998	Drainage Location Description	#1 MAIN SOUTH DISCHARGE	#2	#3	#4
Observers Name MIKE GREBOR	Observation Time	3 :00 □ AM.	□ P M : □ A.M.	□ PM. : □ AM.	□ P.M : □ A.M
Title. PRODUCTION LEAD	Time Discharge Began	3:00 A.M.	;	P.M : A.M.	:
Signature Manager	Were Pollutants Observed (If yes, complete reverse side)	YES NO	YES NO	YES NO	YES NO
		44 4	40	40	44
Observation Date: December 2 1998	Drainage Location Description	#1 MAIN SOUTH Discharge	#2	#3	#4
Observers Name Shave Tunkovich	Drainage Location Description Observation Time		#2   PM   A.M.	#3   P.M. :	□ P M ,
Observers Name Shave Tumkovich		Discharge	☐ P.M. : ☐ A.M.	□ P.M. □ A M. □ P.M	□ PM,
Observers Name Shave Tunkovich	Observation Time	Dischange  □ P.M.  // : 60 ⊠ A.M.  □ P.M	☐ P.M. : ☐ A.M.	□ P.M. □ A M. □ P.M	□ P M ,
Observers Name Shave Tumkovich	Observation Time  Time Discharge Began  Were Pollutants Observed	Discharge  ☐ P.M. //: Ø ☒ A.M. ☐ P.M //: 00 ☒ A.M.?	:	P.M. : A M. : P.M : A M.	P M A.M P M A.
Observers Name Shave Tumkovich	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)	Discharge  ☐ P.M. //: Ø ☒ A.M. ☐ P.M //: 00 ☒ A.M.?	: D P.M. : D A.M. : D A.M.	:	PM   A.M   PM   A.M
Observers Name Shave Tunikovich  Title Engineer  Signature Shave Strandovich	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)  Drainage Location Description	#1 MAIN SOUTH DISCHAREE	PM   P.M.   P.	P.M.   A.M.   P.M.   P.M.   A.M.   YES   NO	PM   PM   PM   PM   PM   PM   PM   PM
Observers Name Share Tunikovich  Title France  Signature Ahare Suredovich  Observation Date: January 25 1999	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)	#1 MAIN South	:	#3    P.M.   P.M	PM   AM   PM   P

#### ANNUAL REPORT FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION  EXAMPLE: Discharge from	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS  EXAMPLE: Oil sheen caused by oil dripped by	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
	material storage Area #2	floating objects or an oil sheen, has odors, etc.	trucks in vehicle maintenance area.	
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#### **ANNUAL REPORT** FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
   Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.

  Make additional copies of this form as processary.

Visual observations must be conducted during the at all discharge locations.					
<del>-</del>		#1 MAW JOUTH	#2	#3	#4 :
Observation Date: February 1999	Drainage Location Description	DISCHARGE	·		t .
Observers Name MIKE GREGOL	Observation Time	☐ P.M. 10 : ⊅0 <b>12</b> A M	☐ P M. : ☐ A M	: PM.	:
Title Proportion LEAD	Time Discharge Began	10 :00 XI A.M.	: PM.	; PM.	: DAM
Signature	Were Poliutants Observed (If yes, complete reverse side)	YES NO 🔀	YES NO	YES NO	YES NO
Observation Date: March 15 1999		#1 MAIN SCUTH	#2	#3	#4
Observation Date: March 1999	Drainage Location Description	DISCHARGE			, 1
Observers Name MIKE CARGOS	Observation Time	7 :30 NAM.	☐ P.M. : ☐ A.M.	□ PM : □ AM	:
Title PRODUCTION LEAD		P M.	[7] P.M	☐ PM.	☐ PM
Signature ************************************	Time Discharge Began Were Pollutants Observed	7 : 30 🗖 A.M.	:	YES NO	YES NO D
	(If yes, complete reverse side)	YES NO IZ	159 [] NO []	YES NO	TES LI NO LI
		#1 MAIN "500TH	#2	#3	#4
Observation Date: April <u>B</u> 1999	Drainage Location Description	#1 MAIN SOUTH TISCHARGE	#2	#3	#4
Observers NameMIKE CAECOR	Drainage Location Description Observation Time	DISCHARGE	#2   PM.   AM.	#3 PM :	#4 : P.M.
Observers Name MIKE BLEGGE  Trile PRODUCTION LEAD	Observation Time	7:00 MAM	☐ P M. : ☐ A M. ☐ P.M.	□ PM	☐ P.M.γ
Observers NameMIKE CAECOR	Observation Time  Time Discharge Began  Were Pollutants Observed	7:00 NAM	☐ P M. : ☐ A M.	☐ PM : ☐ AM.	: P.M.
Observers Name MIKE BLEGGE  Trile PRODUCTION LEAD	Observation Time	7:00 DAM 7:00 DAM 7:00 DAM	:	:	:
Observers Name MIKE CRECOR  Title PRODUCTION LEAD  Signature	Observation Time  Time Discharge Began  Were Pollutants Observed	7:00 DAM 7:00 DAM 7:00 DAM	:	:	P.M. : A M. P.M : A.M. YES NO
Observers Name MIKE CALLOSE  Title PACOUCATION LEAD  Signature William  Observation Date: May 1999 Noor	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)	7:00 DAM 7:00 DAM 7:00 DAM NO DAM	:	PM	:
Observers Name MIKE CRECOR  Title PRODUCTION LEAD  Signature	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)  Drainage Location Description	7:00 NAM 7:00 NAM 7:00 NAM YES NO	:	P M	P.M.
Observers Name MIKE CALLOSE  Title PACOUCATION LEAD  Signature WHOM 1999 No gram	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)	7:00 NAM 7:00 NAM 7:00 NAM  YES NO   PM  #1	#2   P.M.   P.M.	#3    P M	#4  :
Observers Name MIKE CRESCR  Title PRODUCTION LEAD  Signature May 1999 No part Storm  Observers Name Creek	Observation Time  Time Discharge Began  Were Pollutants Observed (If yes, complete reverse side)  Drainage Location Description	7:00 MAM 7:00 MAM YES NO   PM   PM	#2   P.M.   P.M.	#3   PM.   AM	#4  #4    P.M.   P.M.

# ANNUAL REPORT FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPS AND THEIR DATE OF IMPLEMENTATION	
	EXAMPLE: Discharge from material storage Area #2	Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining, containing floating objects or an oil sheen, has odors, etc.	EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	·	
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AM PM					
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#### 1998-1999 ANNUAL REPORT

### FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

	VALUATION DATE: 61/199 INS	SPECTOR NAME: Shave	TVAN	KOUTCH TITLE	E ENGINEER SIG	NATURE: Stane Iventovich
3.	POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  Shipping AND RECEIVING AREA	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□ YES	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
		ARE ADDITIONAL/REVISED BMPs NECESSARY?	□ YES			
	POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  ACETYLENE Plant	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	∏ YES	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
		ARE ADDITIONAL/REVISED BMPs NECESSARY?	☐ YES	1		
	POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  CYLINDER FILL	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	⊠ NO □ AE2	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	SOUTE   BUILDING	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□ YES			
	POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  MAINTENANCE AREA		☐ YES ဩNO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
		ARE ADDITIONAL/REVISED BMPs NECESSARY?	□ YES INO		DICE 00960	

#### 1998-1999 ANNUAL REPORT

## FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

DICE 0096	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO	columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO			, )
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO		•	
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	□YES □NO	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
ALLING ALES	ARE ADDITIONAL/REVISED BMPs NECESSARY?	□YES □NO	columns of this form		
SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)  PROPULEME   PROPANE  FILLING AREA	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?	∭NO ∐YES	If yes, to either question, complete the next two	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation

# Ar ytical & Environmental Services

Client: Air Liquide

Report Date: November 25, 1998

8832 Dice Road

Santa Fe Springs, CA 90670 Received Date: November 12, 1998

Thursday 11:35/TGN

Attn.: Wayne Dooley

(562) 906-8710 x FAX (562) 698-4991

693-1156

Project Name: SWPPP

Purchase Order #:

Project #:

Normal Turnaround

#### Certificate of Analysis

Lab#: 9830568 Sample ID: Storm Drain Matrix: Storm Water Date: 11/11/1998 Time: 15:30 Sampled By: Mike Gregor

Parameter	Result	Units	PQL	Method	Anatyzed Run #
pH	207 7,410	Units mg/L umhos/cm mg/L	5 2 5	EPA 160.2	11/12/1998 98156599 11/17/1998 98156802 11/17/1998 98156754 11/23/1998 98156990

ND = Not Detected

PQL = Practical Quantifiable Limit e = Estimated (> MDL, but < PQL)

Any remaining sample(s) for testing will be disposed of three weeks from the final report date unless other arrangements are made in advance.

**DICE 00962** 

1859 East Clark Avenue, Industry, California 91745-1396

(626) 336-2139 FAX (626) 336-2634

ΙØ PAGE

PS93985939



#### Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Phone: (562) 906-8718 945-1383

Report Date: Monday, April 19, 1999 Received Date: Thursday, April 08, 1999

FAX: (562) 698-4991

Log By: el Log Time: 11:05

Client: Air Liquide

\_\_8832 Dice Road -

Santa Fe Springs, CA 90670

Attn.: Wayne Dooley

Project:

P.O. #:

Turnaround Time: Normal

**CERTIFICATE OF ANALYSIS** 

Lab#: 992635-001

Sample ID: Storm Water

Matrix: Storm Water

Sampled By: Mike Gregor

Date: 4/8/99

Time: 7:00

Parameter	Result	Units	Dilution Factor	PQL	Method	Analyzed
pH	8.55	Units	1		SM 4500H B	4/8/99 tc
*Total Suspended Solids	44	mg/L	1	5	EPA 160.2	4/14/99 hp
Conductivity	240	umho/cm	1	2.0	SM 2510B	4/14/99 lm
Oil & Grease	ND	mg/L	1	0.5	EPA 413.2	4/9/99 bt

ND = Not Detected.

PQL = Practical Quantitation Limit

TR = Trace detection, detected but below the PQL.

J = Estimated value, detected but below the PQL.

NA = Not Applicable.

Sub = Subcontracted analysis, original report enclosed.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

**DICE 00963** 

Lab#: 992635

Page 1 of 1

### Monitoring of Storm Water

During the wet season, a designated Pollution Prevention Team member will be assigned and trained to collect runoff samples from two storms. Samples will be collected and analyzed to determine the effectiveness of the facility's BMPs in reducing pollutant source contamination of storm water discharges. Samples will be collected during the wet season, October 1st to April 30th.

#### Storm water sampling and analysis protocol:

- Grab samples will be collected from the discharge point where the storm water discharge exits the facility under the eurb-located west of the parking lot near the gate. at the storm water drainage ditch along the southern property boundary.
- A sample will be drawn from below the water surface, but above the ground level to avoid scraping the ground.
- Samples will be collected during the first hour of discharge only from: a) the first storm of the wet season and b) from at least one other storm event during the wet season.
- Samples will only be collected from storm water discharges that occur during facility operating hours and are proceeded by at least three working days without storm water discharge.
- Samples will be analyzed at Weck Laboratories, Inc., located in Industry, CA, for pH, total suspended solids, specific conductance, total organic carbon, and oil and grease.
- Samples will be collected in containers supplied by Weck Laboratories, Inc. and submitted as soon as possible following the collection. Weck Laboratories is located at 14859 E. Clark Ave., Industry, CA 91745. (626-336-2139).

Note: samples will not be taken if adverse climatic conditions are present.

#### Non-storm Water Discharge Visual Observations (Authorized and Non-authorized)

These observations are required under the General Permit. Observations will include both authorized non-storm water discharges such as cleaning water to the sump and clarifier in the Wash Bay and non-authorized storm water discharges such as vehicle wash water not being contained. The objective here is to look for discharges that may come in contact with pollutant sources or be an actual pollutant source that could contaminate storm water runoff or be discharged into a storm water drain.

Designated Pollution Prevention Team members will be assigned to visually observe all drainage areas within facility boundaries for the presence of unauthorized non-storm water discharges.

Observation protocol are as follows:

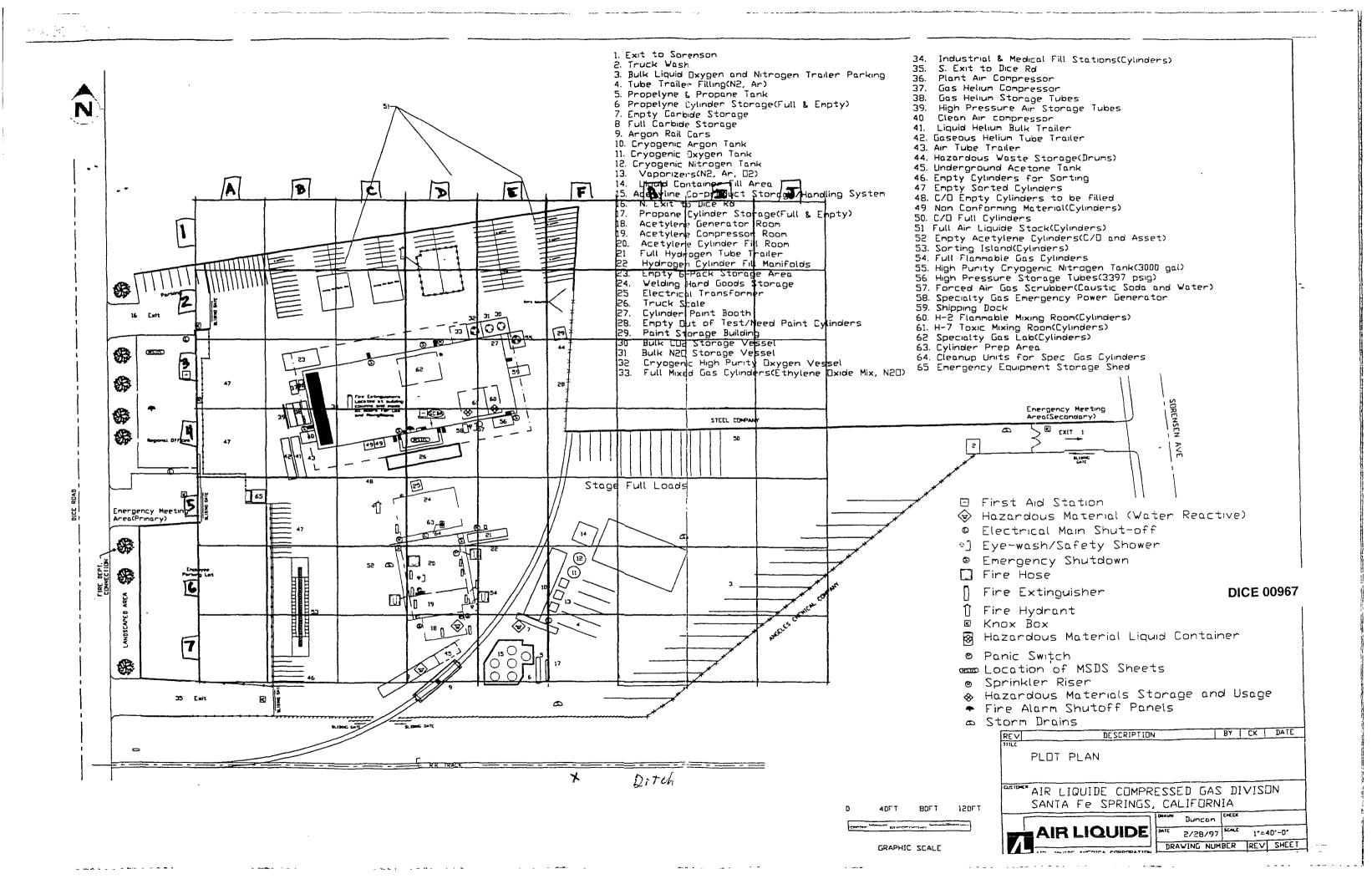
- Visual observations shall occur quarterly, during daylight hours, on days with no storm water discharges, and during scheduled operating hours.
- Observations will be conducted the periods of January-March, April-June, July-September, and October-December.
- Observations shall document the presence of any discolorations, stains, odors, floating materials, etc., as well as the source of any discharge.
- Observations will be documented using Form 3 "Quarterly Visual Observations of Unauthorized Non-Storm Water Discharges (NSWDs)" and Form 2 "Quarterly Visual Observations of Authorized Non-Storm Water Discharges (NSWDs)".

#### Monthly Storm Water Discharge Visual Observations

Visual observations of storm water discharges are required under the General Permit. Observations must be performed during one storm per month during the wet season (October 1<sup>st</sup> to May 31<sup>st</sup>). Following are the observation protocol:

- Observations must take place during the first hour of discharge from your facility.
- Observations must be conducted at all discharge locations.
- Observations are only required during daylight hours, during facility operating hours, and must be preceded by three working days without any storm water discharges.

6 Observations will be documented using the Form 4 "Monthly Visual Observations of Storm Water Discharges".





# **AIR LIQUIDE**

FACSIMILE TRANSMITTAL SHEET				
TO:	FROM:			
Toby	Kelly Davidson			
COMPANY	DATE.			
ALAC	04/17/01			
FAX NUMBER.	TOTAL NO OF PAGES INCLUDING COVER			
562-464-5262	2			
PHONE NUMBER-	SENDER'S FAX NUMBER			
562-464-1204	713-896-2879			
RE:	YOUR REFERENCE NUMBER			
Wastewater permit renewal	713-896-2887			
NOTES/COMMENTS-				
	We no longer need to renew your wastewater r facility is considered an insignificant source. If our to notify the agency.			
Thanks, Kelly				
*****				



# COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P. O. Box 4998, Whittier, CA 90607-4998 Telephone (562) 699-7411

#### **FAX TRANSMITTAL**

TECHNICAL SERVICES DEPARTMENT Fax Machine No. (562) 692-5103

To:

Kelly Davidson

Air Liquide

From:

Alicia Jauregui

(562) 699-7411, ext. 2918

Date:

April 17, 2001

No. of Pages (Including this page):

1

Subject:

Air Liquide America Corp.

8832 Dice Rd.

Santa Fe Springs, CA 90670

Industrial Wastewater Discharge Permit No. 13806

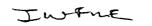
#### Ms. Davidson:

This transmittal is in response to your inquiry into the necessary action required by your company to comply with the Sanitation Districts' permit renewal requirements. Pursuant to federal regulations outlined in 40 CFR Part 403.8, the Environmental Protection Agency requires the Sanitation Districts to issue permits with a statement of duration not to exceed five years to Significant Industrial Users as defined under 40 CFR 403.3(t). The subject facility is not classified as a Significant Industrial User. As such, your company is not required to submit an industrial wastewater discharge permit renewal. A permit revision will however be required if and when there has been a significant change (25% or more) in the wastewater quantity or quality from that approved in the previously issued permit. If you have any questions concerning this matter, you may contact me at the number shown above.

Sincerely,

Alicia Jauregui Project Engineer

Industrial Waste Section





# COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998 Telephone: (340) 699-7411, FAX: (310) 695-6139

CHARLES W. CARRY
Chief Engineer and General Manager

362

April 19, 1996 File: 18-00.05-00/96-13806M Account No. 1968766

Mr. John R. Price City of Santa Fe Springs 11710 E. Telegraph Road Santa Fe Springs, CA 90670

Dear Mr. Price:

Industrial Wastewater Discharge Permit No. 13806 (Ref. No. 4784)

Air Liquide America Corporation 8832 Dice Road Santa Fe Springs, CA 90670

Enclosed are three (3) approved sets of plans and copies of the approved Industrial Wastewater Discharge Permit for the subject company. This permit is issued following a change of ownership at the facility. Please review these for compliance with your requirements, and retain the copies you require for your files. The Applicant's copy of the approved plans and Industrial Wastewater Discharge Permit, along with a copy of this letter and requirement list, should be forwarded to the applicant. A copy of this letter is forwarded to the applicant as notification of the Sanitation Districts' permit requirements, which are in force from the current date. If any additional permit requirements are issued to the applicant by your agency, copies should be forwarded to the Sanitation Districts for our records. The approved plans consist of:

#### 1. Site Plan--Improvements

Approval of the permit is subject to compliance with all applicable Ordinance requirements, with any corrections shown in red on the drawings, and with the items indicated on the attached requirement list. Failure to comply with all items invalidates this approval and issuance. Any company which operates without a valid permit is subject to immediate termination of industrial sewer service. Successful compliance will result in a formal permit that expires five (5) years from the date of approval.

If you have any questions concerning these requirements, please contact Alicia Jaurequi of the Sanitation Districts' Industrial Waste Section at extension 2918.

Very truly yours,

Charles W. Carry

John D. Kilgore

Supervising Civil Engineer

JDK:MJG:wh

cc: John Oliveri

Air Liquide America Corp.

#### SANITATION DISTRICTS OF LOS ANGELES COUNTY

Charles W. Carry, Chief Engineer and General Manager 1955 Workman Mill Road, P.O. Box 4998, Whittier, California 90607

#### INDUSTRIAL WASTEWATER DISCHARGE PERMIT

#### REQUIREMENT LIST

COMPANY NAME: Air Liquide America Corporation

INDUSTRIAL WASTEWATER DISCHARGE PERMIT NUMBER: 13806

ACCOUNT NUMBER: 1968766

DATE OF APPROVAL: April 18, 1996 EXPIRATION DATE: April 18, 2001

The approval and issuance of this permit is being made conditionally and subject to Air Liquide America Corporation being in compliance with all indicated items on this list. Satisfactory evidence of compliance with these conditions should be supplied to the Sanitation Districts where requested. Satisfactory evidence will consist of a minimum of written notification signed by a responsible company official, and in some cases may involve the submission of additional drawings and data, or verification by a Districts representative. Failure to comply with all items on the requirement list, including all deadlines specified, invalidates this approval and issuance. Invalidation of this permit will result in Air Liquide America Corporation being deemed to be operating without a valid permit and subject to immediate discontinuance of sewer services for industrial operations.

- 1. This permit (IW # 13806) is issued following a change of ownership at the site. The facility was previously operated by Liquid Air, Inc., which discharged industrial wastewater under IW # 4784. The facility manufactures acetylene and packages industrial gases in cylinders.
- 2. This industrial wastewater discharge permit is issued only for the discharge of treated wastewater from truck washing and from hydrotesting gas cylinders. The discharge of any other type of waste will require prior approval from the Sanitation Districts. This approved permit will expire five (5) years from the date of approval.
- 3. Air Liquide must notify the Sanitation Districts of any change in the status of the subject facility, if ownership or operating responsibility changes, or if the industrial waste connection is legally abandoned.
- 4. A new permit application must be submitted when there is a significant change in wastewater quantity (25% or more) or quality from that given in the approved permit information. The completed application should be submitted to the local governmental agency for initial processing prior to Sanitation Districts' review. Approval must be obtained prior to any construction of new facilities.
- 5. Waste haulers reports must be obtained and kept on file for a period of at least four (4) years for any solid wastes from the wastewater pretreatment system and liquid wastes leaving the plant other than in the sewer system. These reports must be made available to representatives of the Sanitation Districts upon request.
- 6. All industrial wastewater discharged to the public sewer must have a temperature lower than 140° F.

- All industrial wastewater discharged to the public sewer must not contain over 0.1 milligram/liter of dissolved sulfides.
- 8. The pH of the wastewater must be maintained at or above 6.0 at all times. Proper neutralization procedures must be observed to assure that this limit is not violated.
- 9. Numerical limits have been established by the Sanitation Districts for the maximum concentrations of heavy metals, and other toxic materials, permissible in an industrial discharge to the public sewers. The limits are those shown in the following list of "Industrial Wastewater Local Effluent Limitations." Air Liquide America Corporation is advised that any discharge in excess of these limits requires corrective action by the discharger. Penalties applicable to violations of these limits will be strictly enforced by the Sanitation Districts.

# SANITATION DISTRICTS OF LOS ANGELES COUNTY INDUSTRIAL WASTEWATER LOCAL EFFLUENT LIMITATIONS FOR JOINT OUTFALL DISTRICTS

#### PHASE I CONTROL PERIOD

<u>Parameter</u>	Limit (mg/l)			
Arsenic	3			
Cadmium	15			
Chromium (Total)	10			
Copper	15			
Lead	40			
Mercury	2			
Nickel	12			
Silver	5			
Zinc	25			
Cyanide (Total)	10			
Total Identifiable	Essentially			
Chlorinated Hydrocarbons**	None			

- \* Maximum concentration at any time
- \*\* Total Identifiable Chlorinated Hydrocarbons (TICH) comprise:

Aldrin and Dieldrin

Chlordane (cis & trans), trans-nonachlor, oxychlordane, heptachlor and heptachlor epoxide

DDT and derivatives: p, p', and o, p' isomers of DDT, DDD, and DDE

Endrin

HCH: sum of  $\alpha,~\beta,~\gamma,~\delta$  isomers of hexachlorocyclohexane

Toxaphene

Polychlorinated biphenyls (PCB's)

10. An industrial wastewater sampling point, suitable for obtaining grab or continuous samples, must be installed downstream of the wastewater interceptor as indicated in red on the plans. An acceptable sampling point consists of a square concrete box (approximately 2' X 2') with inlet and outlet piping inverts 12" above the bottom. The sampling box shall be protected with a tightly fitted cover, which must be readily removable and accessible at all times. The walls of the sampling box must extend 3"

above the general surrounding grade to exclude surface water. Plumbing codes will generally require a trap, vent and cleanout downstream of the sampling box. The sample box must comply with the County Engineer Standard I-12 attached to the approved plans.

- 11. The required sampling box downstream of interceptor is hereby designated as the legal sampling point for Air Liquide America Corporation. The permittee is responsible for maintaining and cleaning the sampling point to prevent any build-up of oil and grease, sediment or sludge; failure to do so does not invalidate sampling test results. Analytical results from samples taken from this location according to accepted sampling procedure shall be accepted as binding. Safe and convenient access to the sampling point must be provided for representatives of the Sanitation Districts. Air Liquide must modify the sampling point if the Districts determine that the existing one is inadequate.
- 12. The Districts' personnel <u>may</u> provide a split of any composite sample collected if sufficient sample volume is available. Districts' personnel <u>may</u> also provide split, concurrent, or sequential grab samples. These samples will be left with a designated company representative. If the designee is not available, these samples will be left with whomever is available.

Air Liquide must follow appropriate preservation techniques, analytical procedures, and holding periods specified in 40 CFR 136, if the analytical test results from these samples are to be used for compliance or surcharge reporting purposes. Failure to follow the prescribed procedures will invalidate the test results.

- 13. Air Liquide is advised that additional industrial wastewater pretreatment equipment may be required if inspection or monitoring indicates prohibited materials are discharged to the public sewer.
- 14. Any plans for changes in equipment or processes must be submitted (for approval before implementation) to the Sanitation Districts.
- 15. If Air Liquide America Corporation is required or chooses to file Long Form Surcharge Statement, surcharge tests of the industrial wastewater must be performed at the intervals indicated on the enclosed table of Surcharge Test Frequency and submitted annually with the wastewater treatment surcharge statement.
- 16. If the wastewater flowrate and strength data indicate an increase in the sewerage capacity unit usage by 25% or more, Air Liquide America Corporation may be required to revise their permit, and will be required to pay a corresponding connection fee. The existing entitlement at this site is 24.02 CUs.
- 17. In the event of the discharge of any prohibited waste, excessive quantities or concentrations of any restricted waste, or of the discharge of material not covered under this permit, the company must immediately notify the Sanitation Districts by calling 310-699-7411, extension 2907, during office hours or the Long Beach Pumping Plant, 310-437-6520, during non-office hours.
- 18. The exposed truck wash area currently allows rainfall and storm runoff to enter the sanitary sewer. Air Liquide must install a system to divert rainwater from the sewer to the storm drain. Per discussions with the District's inspector, the company may choose to build a berm around the wash area which diverts runoff from the sewer but allows trucks to drive over it. The company must build this berm within 90 days and submit as-built plans to the Districts. If the company chooses a different option (i.e. roofing, automatic diversion mechanism), a proposal must be submitted to the Districts within 90 days for approval. Please review the enclosed "Guidelines for the Discharge of Rainwater, Stormwater, Groundwater, and Other Water Discharges."
- 19. An on-site air separation plant was demolished several years ago. The industrial wastewater discharge permits issued to Liquid Air, Inc. (IW # 4061) and to M.G. Burdett Gas Products (IW # 9221) for operation of this plant have been voided by the Sanitation Districts.

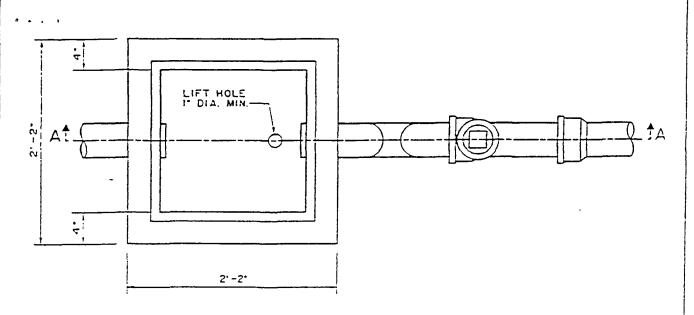
20. Information requested, or satisfactory evidence of compliance, must be submitted to the Sanitation Districts within 90 days to satisfy condition numbers 10 and 18.

# PERMITTOR INDUSTRIAL WASTEWATER DISCHARGE COUNTY (ITATION DISTRICTS OF LOS ANGELES COUNTY), 955 Workman Mill Road / Whittier, CA

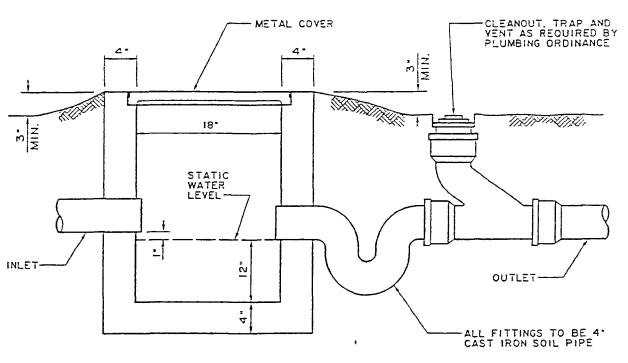
PERMIT NO. <u>13806</u>

Mailing Address: P.O. Box 4998 / Whittier, California 90607-4998 Charles W. Carry, Chief Engineer and General Manager (310) 699-7411

on CHECK ONE: New Sewer Connection ☐ Existing Sewer Connection	
OZ Applicant AIR LIQUIDE AMERICA (Legal Compan)	CORP.
03 Check one and fill in appropriate information	,,
Corporation Name AIR LIQUIDE	AMERICA CORP.
Year Incorporated State	of Incorporation ID#
☐ Partnership Name	
	Business Names
•	
□ Company Address	(State) (Zip)
os Mailing Address Same (City)	(State) (Zip)
	ogl sewer line mys
σ Number of years applicant has been in business at present location	(vrs) (months)
" Name of Property Owner Air Lauide Amarice	Conh
Address of Property Owner 8832 Disp Road (Street) 011	SFS 90670 (310) 945 1383
(110	
TO CONTRACT TO THE ACTUAL TO A CANCELLE ACTUAL TO THE ACTU	/
INDUSTRIAL GASE (General Description)	(Federal SIC No.)
	me)
12, Raw Materials Used / NOUSTRIAL GASES (General Description — Add Additional Sheets as Needed)	Tallium carpiet war
<u> </u>	(Daily Amount Used)
" Products Produced IN DUSTRIAL, MEDICAL, FO	
Products Produced IN <u>PUSTRIAL</u> , <u>MEDICAL</u> , <u>FO</u> (General Description — Add Additional Sheets as Needed)  ACC-LY LONE, I'M C	
- Total diese in the	(Daily Amount Produced)
■ Wastewater Producing Operations	YLINDERS TRUCK MASH
(Full Description — Add Additional She	ets as Needed)
15 Time of Discharge AM/PM to AM/PM, Shifts pe	r Day <b>2</b> , Days per Week M T W Th F Sa Su
(Circle AM or PM)	(Circle Days)
•	ay Gallons per Minute
r Constituents of Wastewater Discharge	
(General Description — Attach Chemical Analysis	Results to the Application) DICE 00976
<sup>18</sup> Person in company responsible for industrial wastewater discharge	
MILTON BIRD OPERATION (Position)	MANAGER (310) 945 1383
I affirm that all information furnished is true and correct and that the	
the back of this permit form.	
Date 9/29, 1999	0 . 4: . 44
Signature for Applicant Silve (Name)  (Company Administrative Official)	Operations Nangor (Position)
20 Approved/Reviewed by City or County Official	Approved by Sanitation Districts of Los Angeles County
Date OCTOBER 19, 1994	Date
For L.A County Dept. of Public Works	Expiration Date 4-19-01
City of SANTA FOR SPRINCE	Charles W Carry Chief Engineer & General Manager
Name V. W. William VIII	Position Supervising Civil Engineer
Position FIRE MARSHAL	
Note: Please submit application first to the applicable City or County agency in Please contact the local agency for the required permit processing feet	n which the point of dischargens located.  Submit the original application (Do not send copies)



PLAN WITH COVER REMOVED



SECTION A-A

**DICE 00977** 

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC	C WORKS
SAMPLING BOX	STANDARD PLAN
APPROVED Thomas a. Gillians 5/31/1992 DIRECTOR OF PUBLIC WORKS DATE	2044-0 SHEET 1 OF 2

#### ION DISTRICTS OF LOS ANGELES COUNT SANI

1955 Workman Mill Road / Whittier, CA

Mailing Address P.O. Box 4998 / Whittier, CA 90607-4998 James F. Stahl, Chief Engineer and General Manager

(562) 699-7411 www.lacsd.org

	w Sewer Connection	-	mpany Name)		
∞ Check one and fil	ii in appropriate informatio		трану ічате)		
Г	☐ Corporation	Name			
_	·	<u> </u>		oration	ID#
Г	☐ Partnership	Name			
_				<del></del>	_
Ε	☐ Sole Proprietor	Name	Bu	siness Names	
ы Company Addres		(C+v)		(Chaha)	/7\
∞ Mailing Address	(Street)	(City)		(State)	(Zıp)
	(Street)	(City)		(State)	(Zıp)
	applicant has been in bus		tion	<u> </u>	
•	Owner		(yrs)	(months)	
• •					<u></u>
Address of Prope	erty Owner(Street)		(City)	(Ziş	<u> </u>
				(Telephone N	
	ook No.	Pa	ge No	Parcel No	
™ Type of Industry_	(General Desc	rintion)		(Federal SIC N	Jo )
No. and the state of the state	·	•	(Doct Time)	•	
•			(Part Time)		
12 Raw Materials Us	General Description	Add Additional Sheets	as Needed)		
13 Products Produce	ed.				(Daily Amount Produced)
is i roddoto i roddot	(General Description –	Add Additional Sheets	as Needed)		
					(Daily Amount Produced)
14 Wastewater Prod	ucing Operations				
	(Full D	escription Add Additi	onal Sheets as Needed	)	·····
15 Time of Discharge					Week MTWThFSaSu
(Circle AM or PM)					(Cırcle
Days)					<b>-</b>
16 Wastewater Flow		erage)	allons per Day	(Peak)	Gallons per Minute
7 Constituents of W	astewater Discharge	<b>5</b> ,	_	(, <del>, , , , , , , , , , , , , , , , , , </del>	
	(General Description - Att		• • • • • • • • • • • • • • • • • • • •	on)	
<sup>18</sup> Person in compar	ny responsible for industri	al wastewater discha	rge		
	(Name)		(Position)		(Telephone Number)
I affirm that all infor	•	nd correct and that th	` '	oly with the conditions sta	ted on the back of this permit
form					·
Date					
<sup>19</sup> Signature for App		(Name)			
(Company Admin	istrative Oπicial) red by City or County Offic		Appre	•	sition)
	ea by City of County Offic		* *	•	ts of Los Angeles County
	Dept. of Public Works			ation Date	
•	•		•	s F. Stahl, Chief Enginee	r & General Manager
				s F. Stani, Chief Enginee	a General Wanager
				on	
i osidoti		-	POSIU	UII	DICE 00978

#### APPLICANT FOR PERMIT MUST READ THIS MATERIAL

#### IN CONSIDERATION OF THE GRANTING OF THIS PERMIT, the applicant agrees:

- 1. To furnish any additional information on industrial wastewater discharges as required by the Districts,
- 2. To accept and abide by all provisions of ordinances, policies and guidelines of the Districts,
- 3. To operate and maintain any required industrial wastewater treatment devices in a satisfactory approved manner,
- 4. To cooperate at all times with Districts' personnel, or their representatives, in the inspection, sampling and study of industrial wastewater facilities and discharges,
- 5. To immediately notify the Districts at (562) 699-7411 during normal working hours or (562) 437-6520 or 437-1881 after 4:00 P.M. or on weekends in the event of any accident, negligence or other occurrence that causes the discharge to the sewer of any material whose nature and quantity might be reasonably judged to constitute a hazard to the public health, environment, Districts' personnel or wastewater treatment facilities,
- 6. To pay to the Districts annually the required surcharge or user charge fee for industrial wastewater treatment,
- 7. To submit, as required by the Districts, accurate data on industrial wastewater discharge flows and wastewater constituents,
- 8. To operate only <u>one</u> industrial wastewater discharge point to the sewerage system under the authority granted by this permit,
- To submit additional pages as required for furnish the necessary information if there is inadequate room on the reverse side of this permit form to complete submittal of requested data,
- 10. To apply for a revised Districts' Industrial Wastewater Discharge Permit if any change in industrial processes, production, method of wastewater treatment or operations creates a significant change in industrial wastewater quality, or if the quantity of wastewater discharged changes by more than 25% or other threshold level as specified in industrial waste permit requirements,
- 11. To provide immediate access to authorized personnel of the Districts to any facility directly or indirectly connected to the Districts' sewerage system under emergency conditions and at all other reasonable times.

# FORM D: CHECKLIST FOR AN INDUSTRIAL WASTEWATER DISCHARGE PERMIT SUBMITTAL

C	OM	PANY NAME:	
1.	Pe	ermit Application Form	
2.	Pla	ans (minimum size: 11" x 17", maximum size: 30" x 42")	
	a.	Required Plans:	
		Sewerage Plan (location of equipment, process tanks and sewer lines)	
		Plot Plan (location of facility, sampling point and connection to the public sewer)	
		Plans of Pretreatment Facilities	
	b.	Additional Plans (if needed):	
		Spill Containment System	
		Flow Monitoring System	
		Rainwater Management	
		Combustible Gas Monitoring System	
3.	Su	upporting Information:	
	(A	Applicant's Questionnaire (Form A)	
		Estimation of Discharge Flow Rate and Water Bills (Form B)	
		Tank Schedule and Spill Containment Calculations (Form C)	
		Checklist (Form D)	·
	(C	omplete Form A to Determine Which of These are Necessary) Waste Minimization Plan	
		Process Description	
		Material Safety Data Sheets	
		Wastewater Analyses	
		Baseline Monitoring Report (for EPA categorical companies)	
		Pump Curves	<del></del>
		Catalog Cuts of Pretreatment Equipment	
		Baseline Credit Information	
		Equipment Costs	
		Notification Report of the Discharge of Hazardous Wastes (if applicable)	

# JRM A: APPLICANT QUESTIONNAL NAME OF COMPANY CONTACT PERSON 1. Reason for Submittal - circle A, B, C, or D and complete the corresponding questions. A. New Permit (for new companies and for changes in ownership) Type of business Is the facility new or existing? If existing, previous company name \_\_\_\_\_\_ Type of business Industrial Wastewater Discharge Permit No. Provide a description of all manufacturing processes below or in an attachment. Provide a description of all wastewater producing operations below or in an attachment. Are any changes being made to the facility's existing wastewater pretreatment/conveyance systems? If yes, briefly explain these modifications below or in attachments. Is there more than one company discharging industrial wastewater at your facility? \_\_\_\_ If yes, provide for each company its name, a separate address and a description of its operations. If feasible, each company must apply for a separate permit and must have its own incoming water meter and a separate industrial wastewater sampling point. If your facility will involve a new connection to the public sewer, please circle the point of connection: a. Local city sewer, b. Sanitation Districts' trunk sewer. If you are relocating, and had a previous Industrial Wastewater Discharge Permit, give your previous \_\_\_\_\_, and permit number\_\_\_\_\_. If you have received a temporary permit, give permit number \_\_\_\_\_. All submittals for new permits must include a permit application, plans (if changes have occurred) and pertinent supporting information. B. Revision of Existing Permit (for a 25 percent or more change in wastewater quantity/quality) Permit number Has your wastewater quantity and/or quality changed over 25 percent? If yes, documentation addressing the magnitude and reason(s) for the change must be submitted. If no, a revision is not required at this time. Have there been any changes in production processes, wastewater pretreatment systems or sewerage plumbing? If yes, submit plans and describe these changes in attachments. All submittals for a revised permit must include a permit application, plans (if changes have occurred) and supporting information.

C. Addendum to Permit (for modifications to the wastewater conveyance/pretreatment system)

Permit number

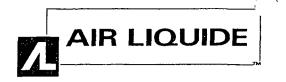
Attach a brief summary of the existing conditions and the proposed changes.

Submittal must include plans and supporting information.

The applicant must also answer the questions on the back of this form.

	D.	Permit Renewal (for permits with expiration dates) Permit number
		Have there been any changes in production processes, wastewater pretreatment systems or sewerage plumbing? If yes, submit plans and describe these changes in attachments.
		All submittals for a permit renewal <b>must</b> include a permit application, plans (if changes have occurred) and supporting information.
2.		pporting Information Required I submittals must include the following forms, which are included in Appendix 6 1:
	Fo Fo	rm A - Applicant Questionnaire rm B - Calculation of Industrial Wastewater Discharge Flow Rate rm C - Tank Schedule and Spill Containment Calculations rm D - Check List
		rthermore, your company must answer the questions below to determine the additional supporting ormation that must be provided:
	A.	Waste Minimization (refer to Sections 2 4 and 3.3 E) Please describe below or in an attachment all of your company's existing/proposed pollution prevention measures (e.g., reuse, product reformulation, process changes, housekeeping measures, etc.):
		Has your company previously submitted a waste minimization plan to the Districts? If the answer is no, please read Sections 2.4 and 3.3E and submit the appropriate plan (if applicable). Your company is encouraged to obtain information on source reduction measures and options for your industrial processes by calling the Districts' Industrial Waste Section at (562)699-7411, ext. 2900.
	B.	Wastewater Quality (refer to Section s 3.3G and H) Please provide the results of at least two 24-hour composite analyses attesting to concentrations of chemical oxygen demand, suspended solids and any priority or regulated pollutants that may be found in your wastewater. Your company must also provide material safety data sheets of all chemicals used in the facility that may directly or indirectly contaminate your wastewater
	C.	New Equipment (refer to Sections 3.3 F, J. and K) Is your company installing new pretreatment, monitoring, conveyance or industrial equipment that may have an impact on the quality or quantity of your wastewater? If yes, please provide catalog cuts of all units and important details such as: number of units, sizes, hours of operation, pump rating curves, operating parameters, etc.
	D.	Baseline Monitoring Report (refer to Sections 2.1 and 3.3 I)  Does your company currently fall under one of EPA's categories? If yes, your company must submit a Baseline Monitoring Report, unless it submitted one in the past and there have been no changes in operations that may change your categorical standards.
	E.	Rainwater Management (refer to Section 3.2)  Are there any outdoor drains, trenches or sumps at your facility that are connected to the sewerage system? If yes, your company must submit plans and information that describe the existing means to divert rainwater from the sewerage system or a proposal to comply with the Districts' rainwater

guidelines. Please be incomed that new automatic rainwater diversion systems will not be approved unless the applicant proves that this is the only feasible alternative.



Wednesday, December 06, 2000

California Department of Toxic Substance Control Hazardous Waste Management Program

1-800-618-6942

Attn: Margaret

Re: EPA ID Number

Dear Margaret,

This is to cancel the EPA ID #CA000012617 which was never activated and is no longer needed. Our current and active EPA ID# is CA000012160.

Both numbers are currently listed for our Santa Fe Springs Facility located at 8832 Dice Rd. Santa Fe Springs, California.

If additional information is required please contact me at 713-869-2858 or Toby Erickson at 562-945-1383.

Sincerely,

Air Liquide America Corporation

Jerry Fields

Support Safety Specialist

Corporate Office

942879 SAC, ... AMENTO, CA 94279-0057 916-323-95!

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DARD OF EQUALIZATION,									
BOARD USE ONLY									
1 3 3	RR-B/A	AUD	REG						
~ 1	· RR-QS	FILE	REF.						

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FOR JANUARY - DECEMBER, 2003 DUE ON OR BEFORE 02/29/04 9103

**HWCA** RVHG05

E F HA

YOUR ACCOUNT NO.

BOARD OF EQUALIZATION EXCISE TAXES AND FEES DIVISION PO BOX 942879 SACRAMENTO CA 94279-6009

AIR LIQUIDE AMERICA CORPORATHON, 18 8832 DICE RD SANTA FE SPRINGS CA 90670-2516

MAKE CHANGES IF NAME OR ADDRESS IS INCORRECT

READ INSTRUCTIONS BEFORE PREPARING

8832 DICE RD CALOO0021160

If you are registered to make your payment by electronic funds transfer (EFT), you must still file your return timely. You can mail your return in the envelope provided or fax it to 916-327-0859. To register to make payments via EFT please contact us at 916-322-9534. तम हार्या कर्ति वर्तन में क्रिया

1.	Please check this box if you no longer generate	hazardous waste at . Your account wil	t this site. Enter the ill be closed as of	date of last generation the date entered For
	consolidated accounts, use the enclosed Schedule waste is no longer being generated at that site.	G to indicate the date	e each site last gener	ated waste, if hazardous

	waste is no longer being generated at that site.			12 th	1970年,1986年1月1日 ·	`
	A CLASSIFICATION OF GENERATING SITES (Based on amounts of hazardous waste generated during the calendar year or portion thereof)		B NUMBER OF SITES (Do not list tonnage)	AMOUNT OF FEES	TOTAL FEES DUE (Golumn B x C)	
2.	Generators which generate less than 5 tons	2.		0.00	\$.	
3.	Generators which generate an amount equal to or more than 5 tons, but less than 25 tons	3.		163.00		
4.	Generators which generate an amount equal to or more than 25 tons, but less than 50 tons	4.		1305.00		
5.	Generators which generate an amount equal to or more than 50 tons. but less than 250 tons	5.		3262.00		
6.	Generators which generate an amount equal to or more than 250 tons, but less than 500 tons	6.		16310.00		
7.	Generators which generate an amount equal to or more than 500 tons, but less than 1,000 tons	7.		32620.00	ta ç	
8.	Generators which generate an amount equal to or more than 1,000 tons, but less than 2,000 tons	8.		48930.00		
9.	Generators which generate an amount equal to or more than 2.000 tons	9.		65240.00		
10.	Amount of fees (add lines 2 through 9 in Column D)			10.	\$	
11.	Less prepayment credit ,			11.	\$	
12.	Total fee due (subtract line 11 from line 10)			12.	\$	i
<b>1</b> 3.	Penalty  multiply line 12 by 10% (.10) if payment is made after the above]	due di	ate shown	PENALTY 13.	\$	
14.	Interest of 08% per annum (0.006670 per month) is due if payment is made after the due date.			INTEREST 14:	\$ DICE	00985
15	TOTAL AMOUNT DUE AND PAYABLE (add lines 12, 13 and 14)			15.	\$	

I hereby certify that this return, including any accompanying schedules and statements, has been examined by me and to the best of my knowledge and belief is a true, conect and complete return.

PRINT/TYPE NAME AND TITLE OIA ex 6, Personal Privacy

SIGNATURE

DATE

# HAZARDOUS WASTE GENERATOR FEE RETURN INSTRUCTIONS

#### **GENERAL INFORMATION**

The Generator Fee is imposed on each site that generates (produces) hazardous waste of 5 tons or more in each calendar year. The fee is calculated for each site's generation of waste regardless of the waste's final disposition (i.e., recycling or disposal).

# EXEMPTIONS FROM THE GENERATOR FEE

- 1) Used oil removed from motor vehicles that is recycled by a recycler permitted by the Department of Toxic Substances Control. "Motor vehicle" includes locomotives, vessels, and self-propelled, off-road equipment, whether or not the equipment moves or is permitted to move on public highways.
- 2) Waste that is generated, recycled, and used onsite, and not transferred offsite at any time.
- 3) Aqueous waste treated in a treatment unit operating, or which subsequently operates, under a permit by rule, conditional authorization, or conditional exemption. However, hazardous waste generated by the treatment process is subject to the generator fee.

#### **EXEMPTION FROM THE DISPOSAL FEE**

The disposal site operator is not required to collect the fee if the person submitting the waste for disposal provides written evidence from the generator of the waste, as shown on the originating hazardous waste manifest, that the waste is exempt from the fee. The written evidence must accompany the manifest and contain the following information:

- · Name of generator
- Site address where waste was generated
- · EPA number for the generating site
- · Generator's Board of Equalization account number, if the generator is registered
- · Type of waste submitted for disposal
- Specific explanation of the reason the waste is exempt from the fee or subject to the cleanup rate
- · Signature and printed name of the person making the statement
- · Telephone number and address of contact person for the generator

For audit purposes, the written evidence should be retained in your files along with a copy of the Uniform Hazardous Waste Manifest.

#### **FILING REQUIREMENTS**

Every person who produces hazardous waste must file this return on or before the last day of February with remittance to the Board of Equalization for any amounts due. This return must be filed even though you have no liability for the fee. Failure to file may result in the imposition of civil penalties. Late payment incurs a penalty of 10% (.10) and interest at an adjusted annual rate established under section 6591.5 of the Revenue and Taxation Code. Facility operators who pay the Facility Fee are not subject to the Generator Fee for the facility site.

#### PAYMENT BY ELECTRONIC FUNDS TRANSFER

**DICE 00986** 

If you are registered to pay by EFT, please remember that:

- A payment is considered to be timely if it is both initiated on or before the tax due date and the funds transfer into the Board
  of Equalization's bank account on the banking day following the date the payment is initiated.
- Making your payment by EFT does not relieve you of the requirement to file your return by the due date. Note: The reporting
  due dates and filing requirements have not changed.

If you would like to file your return by fax, our fax number is 916-327-0859. If you are not registered to pay by EFT and would like to be, please contact us at 916-322-9534

#### **FILING INSTRUCTIONS**

Please select the appropriate fee category in Column A on the front of the return for each site where hazardous waste was generated in this state. Multiply the number of generating sites in Column B by the amount of fees in Column C and enter the amount of fees due in Column D.

If you are reporting for more than one site, please use the enclosed Schedule G or provide the site address, EPA number, and appropriate fee category for each site on an attachment.

#### PREPAYMENT CREDIT (LINE 11)

Some accounts were required to file a prepayment by August 31. If you paid a prepayment, enter on line 11 the amount of fee paid. If delinquency charges were paid, **do not** include those charges in the credit. If, after claiming the prepayment, the total amount due and payable on line 15 is a credit, include a letter with your return requesting the amount to be refunded to you.

IF YOU WISH ADDITIONAL INFORMATION, PLEASE CONTACT THE STATE BOARD OF EQUALIZATION, EXCISE TAXES AND FEES DIVISION, ENVIRONMENTAL FEES SECTION, PO BOX 942879, SACRAMENTO, CA 94279-0057, TELEPHONE 916-323-9555.

BOARD OF EQUALIZATION								
	BOARD USE ONLY							
<u>_</u>	RR-B/A	AUD	REG					
}	DR-OS	ER E	DEE					

FOR JANUARY - DECEMBER, 2002 **DUE ON OR BEFORE** 02/28/03 9102 OUR ACCOUNT NO HWCA RVHG05 5 HA EF

BOARD OF EQUALIZATION **ENVIRONMENTAL FEES DIVISION** PO BOX 942879 SACRAMENTO CA 94279-6009

AIR LIQUIDE AMERICA CORPORATION 8832 DICE RD SANTA FE SPRINGS CA 90670-2516

MAKE CHANGES IF NAME OR **ADDRESS** IS INCORRECT

**READ INSTRUCTIONS BEFORE PREPARING** 

8832 DICE RD CAL000021160

If you are registered to make your payment by electronic funds transfer (EFT), you must still file your return timely. You can mail your return in the envelope provided or fax it to 916-327-0859. To register to make payments via EFT please contact us at 916-322-9534.

Please check this box if you no longer generate hazardous waste at this site. Enter the date of last generation Your account will be closed as of the date entered. For consolidated accounts, use the enclosed Schedule G to indicate the date each site last generated waste, if hazardous waste is no longer being generated at that site.

waste is no longer being generated at that site.				
A CLASSIFICATION OF GENERATING SITES (Based on amounts of hazardous waste generated during the calendar year or portion thereof)	,	B NUMBER OF SITES (Do not list tonnage)	C AMOUNT OF FEES	D TOTAL FEES DUE (Column B x C)
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Generators which generate an amount equal to or more than 500 tons, but less than 1,000 tons	7.			
Generators which generate an amount equal to or more than 1,000 tons, but less than 2,000 tons	8.	( Star -	· 2	- ,
Generators which generate an amount equal to or more than 2,000 tons	9.			
Amount of fees (add lines 2 through 9 in Column D)			10.	, \$
Less prepayment credit			11.	\$
Total fee due (subtract line 11 from line 10)		DICE 00987	12.	\$
Penalty [multiply line 12 by 10% (.10) if payment is made after the above]	due d	ate shown	PENALTY 13.	\$ _
Interest of 09% per annum (0.007500 per month) is due if payment is made after the due date.			INTEREST 14.	\$
TOTAL AMOUNT DUE AND PAYABLE (add lines 12, 13 and 14)	-		15.	\$ Ø
	(Based on amounts of hazardous waste generated during the calendar year or portion thereof)  Generators which generate less than 5 tons  Generators which generate an amount equal to or more than 5 tons, but less than 25 tons  Generators which generate an amount equal to or more than 25 tons, but less than 50 tons  Generators which generate an amount equal to or more than 50 tons, but less than 250 tons  Generators which generate an amount equal to or more than 250 tons, but less than 500 tons  Generators which generate an amount equal to or more than 500 tons, but less than 1,000 tons  Generators which generate an amount equal to or more than 1,000 tons, but less than 2,000 tons  Generators which generate an amount equal to or more than 2,000 tons, but less than 2,000 tons  Generators which generate an amount equal to or more than 2,000 tons  Amount of fees (add lines 2 through 9 in Column D)  Less prepayment credit  Total fee due (subtract line 11 from line 10)  Penalty [multiply line 12 by 10% (.10) if payment is made after the above]  Interest of 09% per annum (0.007500 per month) is due if payment is made after the due date.	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CLASSIFICATION OF GENERATING SITES (Based on amounts of hazardous waste generated during the calendar year or portion thereof)  Generators which generate less than 5 tons  Generators which generate an amount equal to or more than 5 tons, but less than 25 tons  Generators which generate an amount equal to or more than 25 tons, but less than 50 tons  Generators which generate an amount equal to or more than 5.  So tons, but less than 25 tons  Generators which generate an amount equal to or more than 5.  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I hereby certify that this return, including any accompanying schedules and statements, has been examined by me and to the best of my-knowledge and belief is a true, correct and complete return.

PRINT/TYPE NAME AND TITLE PLANT MANAGER

SIGNATURE FOIA ex 6, Personal Privacy

1/28/03

MAKE CHECK OR MONEY ØRDER PAYABLE TO STATE BOARD OF EQUALIZATION.

# HAZARDOUS WASTE GENERATOR FEE RETURN INSTRUCTIONS

#### **GENERAL INFORMATION**

The Generator Fee is imposed on each site that generates (produces) hazardous waste of 5 tons or more in each calendar year. The fee is calculated for each site's generation of waste regardless of the waste's final disposition (i.e., recycling or disposal).

#### **EXEMPTIONS FROM THE GENERATOR FEE**

- 1) Used oil removed from motor vehicles that is recycled by a recycler permitted by the Department of Toxic Substances Control. "Motor vehicle" includes locomotives, vessels, and self-propelled, off-road equipment, whether or not the equipment moves or is permitted to move on public highways.
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#### **EXEMPTION FROM THE DISPOSAL FEE**

The disposal site operator is not required to collect the fee if the person submitting the waste for disposal provides written evidence from the generator of the waste, as shown on the originating hazardous waste manifest, that the waste is exempt from the fee. The written evidence must accompany the manifest and contain the following information:

- · Name of generator
- · Site address where waste was generated
- EPA number for the generating site
- Generator's Board of Equalization account number, if the generator is registered
- Type of waste submitted for disposal
- Specific explanation of the reason the waste is exempt from the fee or subject to the cleanup rate
- Signature and printed name of the person making the statement
- Telephone number and address of contact person for the generator

For audit purposes, the written evidence should be retained in your files along with a copy of the Uniform Hazardous Waste Manifest.

#### **FILING REQUIREMENTS**

Every person who produces hazardous waste must file this return on or before the last day of February with remittance to the Board of Equalization for any amounts due. This return must be filed even though you have no liability for the fee. Failure to file may result in the imposition of civil penalties. Late payment incurs a penalty of 10% (.10) and interest at an adjusted annual rate established under Section 6591.5 of the Revenue and Taxation Code. Facility operators who pay the Facility fee are not subject to the Generator Fee for the facility site.

#### PAYMENT BY ELECTRONIC FUNDS TRANSFER

If you are registered to pay by EFT, please remember that:

**DICE 00988** 

- A payment is considered to be timely if it is both initiated on or before the tax due date and the funds transfer into the Board of Equalization's bank account on the banking day following the date the payment is initiated.
- Making your payment by EFT does not relieve you of the requirement to file your return by the due date. Note: The reporting
  due dates and filling requirements have not changed.

If you would like to file your return by fax, our fax number is 916-327-0859. If you are not registered to pay by EFT and would like to be, please contact us at 916-322-9534

#### FILING INSTRUCTIONS

Please select the appropriate fee category in Column A on the front of the return for each site where hazardous waste was generated in this state. Multiply the number of generating sites in Column B by the amount of fees in Column C and enter the amount of fees due in Column D.

If you are reporting for more than one site, please use the enclosed Schedule G or provide the site address, EPA number, and appropriate fee category for each site on an attachment.

#### **PREPAYMENT CREDIT (LINE 11)**

Some accounts were required to file a prepayment by August 31. If you paid a prepayment, enter on line 11 the amount of fee paid. If delinquency charges were paid, **do not** include those charges in the credit. If, after claiming the prepayment, the total amount due and payable on line 15 is a credit, include a letter with your return requesting the amount to be refunded to you.

RVHG05

**HWCA** 

PO BOX 942879 'RAMENTO, CA 94279-0057

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STATE OF CALIFORNIA BOARD OF EQUALIZATION

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RR-QS	FILE	REF
EFF	12. 34	

	BOARD 02E ONLT					
RR-B/A	AUD	REG				
RR-QS	FILE	REF				
EFF	12. 3					

# MAKE CHANGES IF NAME OR

**ADDRESS** IS INCORRECT **READ INSTRUCTIONS** 

BEFORE PREPARING

HAZARDOUS WASTE GENERATOR FEE RETURN

DUE ON OR BEFORE 02/28/02 FOR JANUARY - DECEMBER, 2001 9101 YOUR ACCOUNT NO.

BOARD OF EQUALIZATION ENVIRONMENTAL FEES DIVISION PO BOX 942879 **SACRAMENTO CA 94279-6009** 

AIR LIQUIDE AMERICA CORPORATION 8832 DICE RD SANTA FE SPRINGS CA 90670

FOIA ex 6, Personal Privacy

8832 DICE RD CALO00021160

If you are registered to make your payment by electronic funds transfer (EFT), you must still file your return timely. You can: mail your return in the envelope provided or fax it to 916-327-0859. To register to make payments via EFT please contact us at 916-322-9534.

1 🗀	Please check this box if you no longer generate h	hazardous waste	at this	site. Enter t	the date of last generation
" <b>—</b>		. Your account	will be	cioseo as	oi the date entered. Fo
	consolidated accounts, use the enclosed Schedule G	3 to indicate the	date eac	h site last ge	enerated waste, if hazardous
	waste is no longer being generated at that site.				

	A CLASSIFICATION OF GENERATING SITES (Based on amounts of hazardous waste generated during the calendar year or portion thereof)	dous waste generated (Do not		C AMOUNT OF FEES	D TOTAL FEES DUE (Column B x C)	
2.	Generators which generate less than 5 tons	2.		0.00	.\$	0
3.	Generators which generate an amount equal to or more than 5 tons, but less than 25 tons	3.	•	153.00		-
4.	Generators which generate an amount equal to or more than 25 tons, but less than 50 tons	4.		1222.00		
5.	Generators which generate an amount equal to or more than 50 tons, but less than 250 tons	5.		3054.00		
6.	Generators which generate an amount equal to or more than 250 tons, but less than 500 tons	6.		15270.00		
7.	Generators which generate an amount equal to or more than 500 tons, but less than 1,000 tons	7.		30540.00		
8.	Generators which generate an amount equal to or more than 1,000 tons, but less than 2,000 tons	8.		45810.00		
9.	Generators which generate an amount equal to or more than 2,000 tons	9.		61080.00		
10.	Amount of fees (add lines 2 through 9 in Column D)	10.	\$	Ĝ		
11.	Less prepayment credit					
12.	2. Total fee due (subtract line 11 from line 10)					0
13.	3. Penalty [multiply line 12 by 10% (.10) if payment is made after the due date shown above] PENALTY 13.					
14.	4. Interest of 10% per annum (0.008333 per month) Insidue if payment is made after the due date.				\$	DICE
15.	5. TOTAL AMOUNT DUE AND PAYABLE (add lines 12, 13 and 14)  15.					

I hereby certify that this i	etum, ınclı	uding agy acco	mpanying sched	lules and statement	s, has been
examined by me and to th	e best of n	ny kn <b>ov</b> iledge j	and belief is a true	e, correct and com	olete retum.

PRINT/TYPE NAME AND TITLE FOIA ex 6, Personal Privacy

SIGNATURE FOIA ex 6, Personal Privacy

PHONE NUMBER

# HAZARDOUS WASTE GENERATOR FEL-

titalija ja tuti ja

#### **GENERAL INFORMATION**

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- · EPA number for the generating site
- · Generator's Board of Equalization account number, if the generator is registered
- Type of waste submitted for disposal
- Specific explanation of the reason the waste is exempt from the fee or subject to the cleanup rate
- Signature and printed name of the person making the statement
- · Telephone number and address of contact person for the generator

For audit purposes, the written evidence should be retained in your files along with a copy of the Uniform Hazardous Waste Manifest.

#### FILING REQUIREMENTS

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#### PAYMENT BY ELECTRONIC FUNDS TRANSFER

**DICE 00990** 

If you are registered to pay by EFT, please remember that:

- A payment is considered to be timely if it is both initiated on or before the tax due date and the funds transfer into the Board of Equalization's bank account on the banking day following the date the payment is initiated.
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If you would like to file your return by fax, our fax number is 916-327-0859. If you are not registered to pay by EFT and would like to be, please contact us at 916-322-9534

#### **FILING INSTRUCTIONS**

J

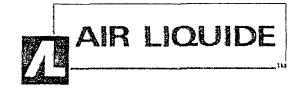
Please select the appropriate fee category in Column A on the front of the return for each site where hazardous waste was generated in this state. Multiply the number of generating sites in Column B by the amount of fees in Column C and enter the amount of fees due in Column D.

If you are reporting for more than one site, please use the enclosed Schedule G or provide the site address, EPA number, and appropriate fee category for each site on an attachment.

#### **PREPAYMENT CREDIT (LINE 11)**

Some accounts were required to file a prepayment by August 31. If you paid a prepayment, enter on line 11 the amount of fee paid. If delinquency charges were paid, **do not** include those charges in the credit. If, after claiming the prepayment, the total amount due and payable on line 15 is a credit, include a letter with your return requesting the amount to be refunded to you.

IF YOU WISH ADDITIONAL INFORMATION, PLEASE CONTACT THE STATE BOARD OF EQUALIZATION ENVIRONMENTAL FEES DIVISION, PO BOX 942879, SACRAMENTO, CA 94279-0057, TELEPHONE 916-323-9555



Farah Ullah Air Liquide America LP 2700 Post Oak Boulevard, Suite 1800 Houston, TX 77056 Phone 713-402-2111 Fax 713-803-7311 Internet: farah.ullah@airliquide.com

November 5, 2004

DTSC Accounting Unit EPA ID PO Box 806 Sacramento, CA 95812-0806

Dear DTSC Manager:

RE: Account #FOIA ex 6, : EPA ID Number: CAL000021160

This letter is in regards to the \$232.50 for the Annual EPA ID # fees for the Air Liquide America L.P. Santa Fe Springs, CA facility. The fees for this facility have been paid and a copy of the check is attached.

Please contact me if you have any questions. I can be reached at 713-402-2111.

Sincerely,

Farah Ullah

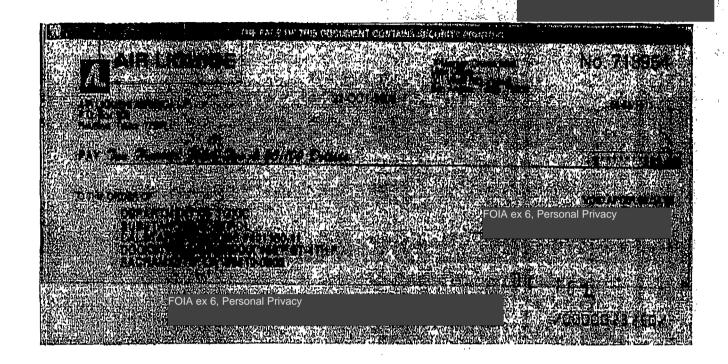
Environmental Specialist Air Liquide America L.P.

Enclosure

Account No Check Num FOIA ex 6, FOIA ex

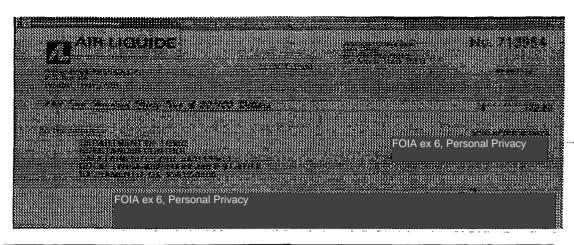
Chkamount
Present Da

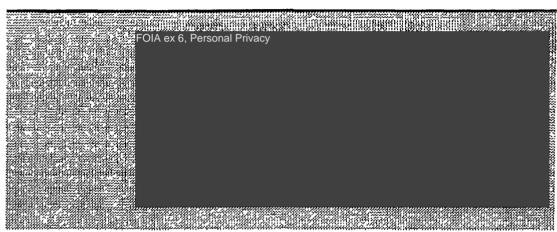
232.50 11/02/04 OIA ex 6, Personal Privacy



FOIA ex 6, Personal Privacy

FOIA ex 6, Personal Privacy





# QUICK SEARCH SUMMARY REPORT

# November 04, 2004 02:23 PM

Request	Account Number	Check Number	Amount	Date	Status	
Inquiry	FOIA ex 6, Personal Privacy	FOIA ex 6, Personal	\$232.50	11/02/2004	Check Paid	!
Photo Copy	FOIA ex 6, Personal	FOIA ex 6, Personal	\$232.50	11/02/2004	Photocopy Request	Completed

Generator Information Services Section -377-454-4012 (Calif Callers Only Toll Free) or 1-916-255-4439 (Outside Calif) www dtsc ca gov

# 2004 VERIFICATION QUESTIONNAIRE

(See back of this form for instructions.)

The Department of Toxic Substances Control (DTSC) requires that all enclosed forms be completed and returned with appropriate fees not later than 30 days from the date of receipt. Instructions for all forms are included.

AIR LIQUIDE AMERICA CORP AIR UQUIDE AMERICA LP 8832 DICE RD SANTA FE SPRINGS CA 90670-0000	If your mailing address has changed, please PRINT or TYPE the correct address below:  Address:
	City/State/Zip:
	No City Abbreviations
DO NOT ALTER IN	VFORMATION IN THIS AREA

1. EPA ID Number: CAL0 2. Location address: \$832 I SANT	A FE SPRINGS CA 90670-0000
	If your business has moved, call GISS.
3. COMPANY OWNER INFO:	<b>NOTE:</b> California EPA ID numbers issued by DTSC may not be transferred to another owner. If the ownership of your organization has changed, please call GISS for assistance. Do NOT fill in new owner information below.
AIR LIQUIDE AMERICA LP	Company owner or Corp. name:
2700 POST OAK BLVD HOUSTON TX 77056-0000	Address:
(713)624-8000	City/State/Zip:
	Telephone:
	Date of ownership change:
4.  My new EPA ID number is	
5. COMPANY NAME:	If printed company name is incorrect, please provide correct name:
AIR LIQUIDE AMERICA CORP	Company name:
6. CONTACT INFO:  AARON TESCH-FACILITY MGR	If printed contact is incorrect or blank, please provide correct information:  Name/Title: Ilya Kazhokin
8832 DICE RD	Address:
SANTA FE SPRINGS CA 90670-0000 (562)464-5242	City/State/Zip:
(302)1013212	Telephone:
	Business email address:
7. SIC CODE (4 digits): 5169	If printed SIC Code is incorrect or blank, please provide correct information:
8.   Check here if you wish to CA	NCEL the EPA ID number listed on Line 1. (See reverse side.)

@ Printed on Recycled Paper

DTSC 1193 [front] (3/04)

**DICE 00995** 

Generator Information Services Section 1-877-454-4012 (Calif Callers Only Toll Free) or 1-916-255-4439 (Outside Calif.) www.dtsc.ca.gov

## SCHEDULE A - MANIFEST FEE CALCULATION SHEET (2003 Manifests)

(See back of this form for sample manifest form.)

EPAI	D Number: CAL000021160 Name of organizatio	n: AIR LIQUIDE AMERICA CORF					
the De	From January 1, 2003 through December 31, 2003, the Department of Toxic Substances Control recorded the number of California Manifests shown at the right						
	he EPA ID printed above.	Recycled: 5	<u></u>				
		is no fee for solely recycled mani	fests.)				
Mani	fest Fee Calculation:						
a.	Enter the total number of <b>non-recycled</b> manifests from above	_0_					
b.	How many of the <b>non-recycled</b> manifests listed on Line a. are non-recycled air compliance solvent manifests	X \$3.50 = \$					
C.	Subtract the number of manifests on Line b. from Line a	X \$7.50 = \$					
d.	No fee due for recycled manifests	\$\$	<u>)</u>				
e.	Total of Line b. + Line c		-				

## INSTRUCTIONS FOR COMPLETING SCHEDULE A

- 1. For lines a. e. above, enter the numbers requested for each line.
  - For line b. multiply the number of manifests by \$3.50 and record the dollar amount.
  - For line c. multiply the number of manifests by \$7.50 and record the dollar amount.
  - For line e. add dollar amounts of lines b. and c. This total is the manifest fees due for the EPA ID number shown at the top of the page.
- 2. For this assessment there are three types of manifests: non-recycled, recycled and air compliance solvents manifests. Manifests used *solely* for recycled waste will have a handling code reported as "01" or "R01" in item K on the manifest form (see circled area on manifest sample on the back of this form). All wastes listed on a manifest must have handling codes of "01" or "R01" to be counted as a solely recycled manifest. You need to pay manifest fees only for non-recycled manifests. There is no fee for recycled manifests.
- 3. If you believe the manifest totals shown in the box above are incorrect, you may use the manifest totals from your own files to calculate the fee. However, please be aware that any difference between the amount you report and the amount printed above is subject to audit by DTSC.
- 4. On January 1, 1999 many businesses were required to switch from petroleum-based solvents to air compliance solvents (also called water-based cleaners). The fee for manifests used solely for hazardous waste derived from air compliance solvents was reduced from \$7.50 to \$3.50. Most air compliance solvent waste is now recyclable. Manifests used to ship air compliance solvents that were recycled should not be charged \$3.50. The Manifest Fee Calculation above includes air compliance solvent manifests as part of the non-recycled manifest count. Businesses that do not recycle their air compliance solvent waste who desire to use the reduced \$3.50 fee must use their internal records to identify manifests used solely for air compliance solvent wastes.

State of California - California Environmental Protection Agency Department of Toxic Substances Control P O Box 806 Sacramento, CA 95812-0806

Generator Information Services Section 1-877-454-4012 (Calif Caliers Only Toll Free) or 1-916-255-4439 (Outside Calif.) www.dtsc ca.gov 2004

## SCHEDULE B - FEES SUMMARY SHEET

(See back of this form for complete instructions )

All completed forms and appropriate fees must be submitted not later than 30 days from the date of receipt

A. EPA ID NUMBER VERIFICATION FEE (July 1, 2003 through June 30, 2004)  1. Name of your organization: Al V Li guide AMERICA							
2. Enter the total number of California employees in your entire organization (Please read instructions for Line 2 on the back of this form.)							
Number of Employees	1 – 49	50 – 74	75 – 99	100 – 249 /	250 – 499	500 or more	
EPA ID Fee Rate	NO FEE	\$150	\$175	\$200	\$225	\$250	
	(Total EPA	ID Number	Verification F	ees not to exc	eed_\$5000)		
3 Enter the	EPA ID Numbe	er Verification F	ee rate from the	e table above:		\$ <u>22S</u>	
(NOTE:	Attach a VQ for	m and Schedu	le A for <b>each</b> pe		anization <sup>.</sup> number you are .ine 4 See instro		
5. Multiply L	ine 3 by Line 4					=\$ <u>225</u>	
	EPA ID Number 0, whichever ar		e due (Enter the	e dollar amount fi	om Line 5 above	\$_ <u>O</u>	
B. MANIFEST FEE (January 1, 2003 through December 31, 2003)  1. Enter the dollar amount from Line e on your Schedule A – Manifest Fee Calculation Sheet.  (If you are reporting more than one EPA ID number, enter the TOTAL of the dollar amounts from Line e on all your Schedule A – Manifest Fee Calculation Sheets.)  \$							
C. GRAND TOTAL OF EPA ID NUMBER VERIFICATION FEES AND MANIFEST FEES  1 Add Line A6 and Line B1, then enter the total dollar amount.  It is not uncommon to not owe fees. You are still required to complete and submit all forms.  If fee is due, please make your check payable to "DTSC" for the total amount on this line: =\$  *** Please write one of your EPA ID numbers on your check.							
To pay your fees via credit card, complete the enclosed "EPA ID and Manifest Fee Credit Card Payment Form".							
I hereby certify under penalty of perjury that the information on the Verification Questionnaire(s), Schedule A(s) and Schedule B is true and correct.  Signature of Preparer / Lely Dander Title: Environmetal Specialist  Name (please print) / 1/e/ly Dander Date: 0/9/09 Phone: 7/3-402-236/							
			FOR DEPARTM	ENT USE ONLY			
Check No		MOUNT	DATE.		CID NO		
.12560055		60092	125600				
12560035.	125	60091:		NT DUE.	DI	CE 00997	
12560075	125	60096	PRIMAI	RY ID #:			

AIR LIQUIDE AMERICA CORP

Generator Information Services Section
7-877-454-4012 (Calif Callers Only Toll Free)
or 1-916-255-4439 (Outside Calif)
www.dtsc.ca gov

If your mailing address has changed, please

# 2004 VERIFICATION QUESTIONNAIRE

(See back of this form for instructions.)

The Department of Toxic Substances Control (DTSC) requires that all enclosed forms be <u>completed and returned</u> with appropriate fees **not later than 30 days from the date of receipt**. Instructions for all forms are included.

PRINT or TYPE the correct address below: 9756 SANTA FE SPRINGS RD SANTA FE SPRINGS CA 90670-0000 City/State/Zip·\_\_\_\_ No City Abbreviations DO NOT ALTER INFORMATION IN THIS AREA TEPA ID Number: CAL000129317
9756 SANTA FE SPRING RD
SANTA FE SPRINGS CA 90670-0000 If your business has moved, call GISS. 3 COMPANY OWNER INFO: NOTE: California EPA ID numbers issued by DTSC may not be transferred to another owner. If the ownership of your organization has changed, please call GISS for assistance. Do NOT fill in new owner information below. AIR LIQUIDE AMERICA CORP Company owner or Corp. name: 9756 SANTA FE SPRINGS RD Address: SANTA FE SPRINGS CA 00000-0000 (000)000-0000 City/State/Zip: Telephone: Date of ownership change: 4. A My new EPA ID number is 5. COMPANY NAME: If printed company name is incorrect, please provide correct name: AIR LIQUIDE AMERICA CORP Company name: 6. CONTACT INFO: If printed contact is incorrect or blank, please provide correct information: Name/Title:\_\_\_\_\_ JERRY BEESON/JASON CURNELL 9756 SANTA FE SPRINGS RD Address: SANTA FE SPRINGS CA 00000-0000 City/State/Zip:\_\_\_\_\_ (000)000-0000 Business email address: 7. SIC CODE (4 digits): If printed SIC Code is incorrect or blank, please provide correct information: 4785

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🕱 Check here if you wish to CANCEL the EPA ID number listed on Line 1. (See reverse side.)

DTSC 1193 [front] (3/04)

**DICE 00998** 

Generator Information Services Section 1-877-454-4012 (Calif Callers Only Toll Free) or 1-916-255-4439 (Outside Calif.) www.dtsc.ca.gov

# SCHEDULE A - MANIFEST FEE CALCULATION SHEET (2003 Manifests)

(See back of this form for sample manifest form.)

EPA ID Number: CAL000129317 Name	of organization: AIR LIQUIDE AMERICA CORP
From January 1, 2003 through December 31, 2003, the Department of Toxic Substances Control recorded the number of California Manifests shown at the right	Non-recycled: 1
using the EPA ID printed above.	Recycled: 2
Manifest Fee Calculation:	(NOTE: There is no fee for solely recycled manifests.)
	1
a. Enter the total number of non-recycled manifes	sts from above
b. How many of the <b>non-recycled</b> manifests listed non-recycled air compliance solvent manifests	on Line a. are X \$3.50 = \$
c. Subtract the number of manifests on Line b. from	m Line a
d. No fee due for recycled manifests	\$\$
e. Total of Line b. + Line c	

#### INSTRUCTIONS FOR COMPLETING SCHEDULE A

- 1. For lines a. e. above, enter the numbers requested for each line.
  - For line b. multiply the number of manifests by \$3.50 and record the dollar amount.
  - For line c. multiply the number of manifests by \$7.50 and record the dollar amount.
  - For line e. add dollar amounts of lines b. and c. This total is the manifest fees due for the EPA ID number shown at the top of the page.
- 2. For this assessment there are three types of manifests: non-recycled, recycled and air compliance solvents manifests. Manifests used *solely* for recycled waste will have a handling code reported as "01" or "R01" in item K on the manifest form (see circled area on manifest sample on the back of this form). All wastes listed on a manifest must have handling codes of "01" or "R01" to be counted as a solely recycled manifest. You need to pay manifest fees only for non-recycled manifests. There is no fee for recycled manifests.
- 3. If you believe the manifest totals shown in the box above are incorrect, you may use the manifest totals from your own files to calculate the fee. However, please be aware that any difference between the amount you report and the amount printed above is subject to audit by DTSC.
- 4. On January 1, 1999 many businesses were required to switch from petroleum-based solvents to air compliance solvents (also called water-based cleaners). The fee for manifests used solely for hazardous waste derived from air compliance solvents was reduced from \$7.50 to \$3.50. Most air compliance solvent waste is now recyclable. Manifests used to ship air compliance solvents that were recycled should not be charged \$3.50. The Manifest Fee Calculation above includes air compliance solvent manifests as part of the non-recycled manifest count. Businesses that do not recycle their air compliance solvent waste who desire to use the reduced \$3.50 fee must use their internal records to identify manifests used solely for air compliance solvent wastes.



Generator Information Services Section 877-454-4012 (Calif Callers Only Toll Free) or 1-916-255-4439 (Outside Calif.)

## SCHEDULE A - MANIFEST FEE CALCULATION SHEET (2002 Manifests)

(See back of this form for sample manifest form.)

EPA ID Number: CAL000021160 Name of organiza	ation: Air Liquide America Ger
From January 1, 2002 through December 31, 2002, the Department of Toxic Substances Control recorded the number of California Manifests shown at the right using the EPA ID printed above.  (NOTE: Th	Non-recycled: 4  Recycled: 5 nere is no fee for solely recycled manifests.)
Manifest Fee Calculation:	
a. Enter the total number of <b>non-recycled</b> manifests from above	ve <u> </u>
b. How many of the <b>non-recycled</b> manifests listed on Line a. a non-recycled air compliance solvent manifests	re X \$3.50 = \$
c. Subtract the number of manifests on Line b. from Line a	4 × \$7.50 = \$ 30
d. No fee due for <b>recycled</b> manifests	\$0.00
e. Total of Line b. + Line c	$\frac{30.00}{\text{equal the count on Line a.}}$

#### INSTRUCTIONS FOR COMPLETING SCHEDULE A

- 1. For lines a. e. above, enter the numbers requested for each line.
  - For line b. multiply the number of manifests by \$3.50 and record the dollar amount.
  - For line c. multiply the number of manifests by \$7.50 and record the dollar amount.
  - For line e. add dollar amounts of lines b. and c. This total is the manifest fees due for the EPA ID number shown at the top of the page.
- 2. For this assessment there are three types of manifests: non-recycled, recycled and air compliance solvents manifests. Manifests used solely for recycled waste will have a handling code reported as "01" or "R01" in item K on the manifest form (see circled area on manifest sample on the back of this form). All wastes listed on a manifest must have handling codes of "01" or "R01" to be counted as a solely recycled manifest. You need to pay manifest fees only for non-recycled manifests. There is no fee for recycled manifests.
- 3. If you believe the manifest totals shown in the box above are incorrect, you may use the manifest totals from your own files to calculate the fee. However, please be aware that any difference between the amount you report and the amount printed above is subject to audit by DTSC.
- 4. On January 1, 1999 many businesses were required to switch from petroleum-based solvents to air compliance solvents (also called water-based cleaners). The fee for manifests used solely for hazardous waste derived from air compliance solvents was reduced from \$7.50 to \$3.50. Most air compliance solvent waste is now recyclable. Manifests used to ship air compliance solvents that were recycled should not be charged \$3.50. The Manifest Fee Calculation above includes air compliance solvent manifests as part of the non-recycled manifest count. Businesses that do not recycle their air compliance solvent waste who desire to use the reduced \$3.50 fee must use their internal records to identify manifests used solely for air compliance solvent wastes.

State of California – California Environmental ection Agency
Department of Toxic Substances Control
P O Box 806
Sacramento, CA 95812-0806

DTSC 1194B [front] (3/03)

Generator Information Services Section 1-877-454-4012 (Calif Callers Only Toll Free) or 1-916-255-4439 (Outside Calif) www.dtsc.ca.gov

2003

## SCHEDULE B - FEES SUMMARY SHEET

(See back of this form for complete instructions.)

All completed forms and appropriate fees must be submitted not later than 30 days from the date of receipt.

A. EPA ID NUIV 1 Name of	BER VERIFICA your organization	ATION FEE (Ji	uly 1, 2002 thro	ough June 30, 2 nericલ	003)	
			ployees in your the back of this	entıre organizati form )	on: 271	
Number of Employees	1 – 49	50 – 74	75 – 99 –	100 – 249	250 – 499	500 or more
EPA ID Fee Rate	NO FEE	\$150	\$175	\$200	\$225	\$250
	(Total EPA	ID Number	Verification F	ees not to exc	eed \$5000)	
3 Enter the	EPA ID Numbe	er Verification F	ee rate from th	e table above <sup>.</sup>		\$ 225
(NOTE	Attach a VQ for	m and Schedu	le A for <b>each</b> pe		ganization: ) number you are Line 4. See insti	, -
5. Multiply L	ine 3 by Line 4					=\$
	EPA ID Number 0, whichever ar		e due (Enter th	e dollar amount t	from Line 5 abov	e \$ 225
(If you ar Line e oi	dollar amount e reporting mor n <b>all</b> your Sched	rom Line e on e than one EPA dule A – Manife	your Schedule A A ID number, er est Fee Calculat	A – Manifest Fee hter the <b>TOTAL</b> o non Sheets.)	e Calculation She of the dollar amo	eet. unts from \$30
Add Line     It is not u     If fee is di     Please w	A6 and Line B ncommon to no ue, please make rite one of your	1, then enter the towe fees. Your check page EPA ID number	ne total dollar ar ou are still requi yable to "DTSC' ers on your chec	red to complete a If or the total amounts.	and submit all foount on this line:	=\$
To pay your fees v	via <b>credit card</b> , c	omplete the encl	osed "EPA ID an	d Manifest Fee Cr	edit Card Paymen	t Form".
and Schedule B	is true and corr	ect		the Verification litle: Plant Solution	Questionnaire(s,	), Schedule A(s)
Signature of Pre <sub>l</sub> Name (please pr	int) <u>Josh</u>	Mermel 8km		Date: 6 (12/03	Phone	7624645241
		THIS SECTION	FOR DEPARTA	ENT USE ONLY	-	
Check No	\$AN	MOUNT	DATE.		CID NO.	
12560055.	125	60092 <sup>.</sup>	125600	065:		
12560035 <sup>-</sup>	125	60091	AMOU	NT DUE		
12560075·	125	60096:	PRIMA	RY ID#		NOT 04004
TEC 1404D // 12 /2						DICE 01001

AIR LIQUIDE AMERICA CORP

Generator Information Services Section -877-454-4012 (Calif. Callers Only Toll Free) or 1-916-255-4439 (Outside Calif.)

## 2003 VERIFICATION QUESTIONNAIRE

(See back of this form for instructions.)

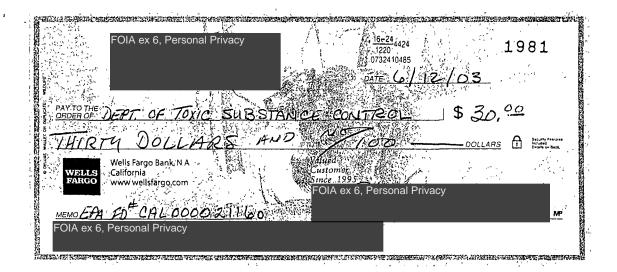
The Department of Toxic Substances Control (DTSC) requires that all enclosed forms be completed and returned with appropriate fees not later than 30 days from the date of receipt. Instructions for all forms are included.

AIR LIQUIDE AMERICA CORP 8832 DICE RD	If your mailing address has changed, please PRINT or TYPE the correct address below:
SANTA FE SPRINGS CA 90670-0000	Address:
	City/State/Zip:
1 EPA ID Number: CALO 2 Location address: 8832 D SANT.	OT ALTER INFORMATION IN THIS AREA 00021160 DICE ROAD A FE SPRINGS CA 90670-0000 your business has moved, call GISS.
3. COMPANY OWNER INFO:	<b>NOTE:</b> California EPA ID numbers issued by DTSC may not be transferred to another owner. If the ownership of your organization has changed, please call GISS for assistance. Do NOT fill in new owner information below.
AIR LIQUIDE AMERICA <del>CORP</del>	Company owner or Corp. name: AIR LIQUIDE AMERICA LP
2700 POST OAK BLVD	Address: SAME - NO CHANGE
HOUSTON TX 77056-0000 (000)000-0000	City/State/Zip: No CHANGE
(000)000 0000	Telephone: 7/3 624 8000
	Date of ownership change: No CHANGE
4.  My new EPA ID number is	·
5. COMPANY NAME: AIR LIQUIDE AMERICA CORP	If printed company name is incorrect, please provide correct name:  Company name: AIR LIQUIDE AIMERICA LP
6. CONTACT INFO:	If printed contact is incorrect or blank, please provide correct information:
	Name/Title:
FOIA ex 6, FACILITY MGR	Address:
8832 DICE RD SANTA FE SPRINGS CA 90670-0000	City/State/Zip: FOIA ex 6, Personal Privacy
(000)000-0000	Telephone:FOIA ex 6, Personal Privacy
	Business email address:
7. SIC CODE (4 digits): 0000	If printed SIC Code is incorrect or blank, please provide correct information:
8.	CEL the EPA ID number listed on Line 1. (See reverse side.)
9. ☐ Check if you would like to verify	online in 2004. We will use the email address above.
10. ☐ Check if your business has a to help us determine if we should send y	tal of 49 or fewer employees in all business locations in California. This will ou fee forms in 2004.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

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**DICE 01003** 

# California Permanent Identification Numbers Advance Notice

Businesses that generate, transport, or handle hazardous waste in California are generally required to have either a U.S. EPA or California identification (ID) number. Historically, those businesses needing a temporary or permanent California ID Number have been able to obtain those ID numbers by telephone. However, the state budget crisis and resulting reduction in staff has negatively impacted the Department of Toxic Substances Control (DTSC) Generator Information Services Section's (GISS) ability to meet the volume of ID Number requests over the telephone. This has resulted in long hold times and a high number of system busy conditions during peak times.

In an effort to provide better customer service to businesses in California, GISS is redirecting resources to the more time sensitive temporary California ID Numbers. To this end, GISS will stop issuing permanent California ID Numbers (those that begin with CAL) by telephone effective July 15, 2003. From that date forward, permanent California ID Numbers must be requested on DTSC Form 1358 by mail, email, or fax. This form is available for downloading from the DTSC web site at <a href="https://www.dtsc.ca.gov">www.dtsc.ca.gov</a> under Frequently Requested Information and will also be made available from a number of other sources.

DTSC Form 1358 can be submitted:

By mail to: DTSC GISS P.O. Box 806 Sacramento, CA 95812-0806

By email to: <a href="mailto:idnumber@dtsc.ca.gov">idnumber@dtsc.ca.gov</a>
Please use "ID Number Request" as the subject.

By fax to: 916-255-4703

Please do not submit cover letters or other documents with Form 1358.

Temporary California iD Numbers (those beginning with CAC) will continue to be issued by telephone at 800-6186942 or 916-255-1136.

**DICE 01004** 

# City of Santa Fe Springs Fire Department Fire Protection Division - Environmental Protection Division 11300 Greenstone Avenue, Santa Fe Springs, CA 90670-4619 (562) 944-9713 FAX (562) 941-1817 fire@santafesprings.org

#### INVOICE

eopy

AR LIQUIDE AMERICA CORP BABB DICE SANTA FE SPRINGS CA 90670

Period Covered:

07/01/2001-06/30/2002

Permit No:

600094.

Today's Date:

11/06/2001

Payment Due Date:

12/15/2001

A PENALTY WILL BE ASSESSED FOR TOTAL FEES NOT RECEIVED BY THE DUE DATE ABOVE FOIA ex 6, Personal Privacy

For Facility Located at:

AIR LIQUIDE

AIR LIQUIDE AMERICA CORP

8832 DICE

SANTA FE SPRINGS, CA 90670

CUPA PROGRAM ELEMENTS	,	
Hazardous Materials Fee		\$2,835.00
Hazardous Materials Volume Fee		\$1,512.00
Hazardous Waste Generator Fee		\$715.00
Tier Permit Fee		\$0.00
Underground Storage Tank Fee		\$600.00
CalARP Fee		\$0.00
Aboveground Storage Tanks		\$0.00
STATE SERVICE FEES		
Underground Storage Tank Service Fee	(Exempt)	\$16.60
CalARP Service Fee	☐ (Exempt)	\$0.00
Program Oversight Fee	☐ (Exempt)	\$17.50
OTHER		
Industrial Waste Permit Fee		\$352.00
Rain Diversion Fee		\$0.00
Fire Permit Fee		\$1,874.00
Stormwater Fee		\$0.00

This fee is due and payable upon receipt. Please indicate the permit number 600094 on your check. Make check payable to 'CITY OF SANTA FE SPRINGS' and remit to:

Above Total: \$7,915.50

Late Fee:

\$0.00

City of Santa Fe Springs Fire Department 11300 Greenstone Avenue Santa Fe Springs, CA 90670 Amount Paid:

\$0.00

TOTAL AMOUNT DUE:

\$7,915.50



# Headquarters Fire Station

11300 Greenstone Ave • CA • 90670-4619 • (562) 944-9713 • Fax (562) 941-1817 • www.santafesprings.org

### 2001/2002 Annual Unified Program Certification

#### Dear Business Owner:

on file.

In addition to other notification and update requirements, Chapter 6.95 of the California Health and Safety Code requires your Hazardous Materials Eusiness Pian (HMEF) to be reviewed and updated annually. If you have made changes to your HMBP, please check the "Changes Have Been Made" box(es) below. The Fire Department will send you all of the appropriate forms necessary to update your status. If no changes have been made you must check the box and sign below. This form will serve as your 2001/2002 official update.

This form must be signed by the business owner or officially designated representative. Check the appropriate box(es) and return to the Fire Department by December 15, 2001 along with the required annual CUPA fees shown on the attached invoice. Failure to do so will result in additional fines being assessed. The minimum late penalty fine is \$300.00 dollars.

#### CHECK THE APPROPRIATE BOX AND SIGN THE FORM BELOW

<b>T</b>	CH	ANGES HAVE BEEN MADE:
	v	Emergency Contacts – These are the two main contacts and their emergency phone numbers that the Fire Department will use in the event of an emergency.
		Chemical Inventory – The types and/or quantities of chemicals, hazardous liquids, solids, compressed gases, or waste have been changed.
•		Facility Plot Plan – This is the diagram of your facility, which indicates the storage and use location of all the hazardou materials listed in the inventory.
	'NO	CHANGES (all items must be correct):
	1)	The most recent inventory statement is complete, accurate, and up to date
	2)	There has been no change in the quantity of hazardous material as reported last year

I certify under penalty of law that our business has reviewed the current HMBP on file with the Santa Fe Springs Fire Department and certify the submitted information is true, accurate and complete.

3) No hazardous materials subject to the inventory requirement are being handled that are not listed on the inventory statement

NOTE: Businesses that use the HMBP to satisfy EPCRA reporting requirements <u>may not</u> use a certification statement – it is not recognized under federal law. These businesses <u>must</u> annually resubmit their inventory.

AIR LIQUIDE AMERICA CORPORATION	8832 DICE ROAD SANTA FE	SPRINGS, CA. 90670
Business Name	Facility Address	
AARON L. TESCH	Garon L. Teach	11/16/01
Print Name of Owner/Operator	Signature of Owner/Operator	Date



# Headquarters Fire Station

11300 Greenstone Ave • CA • 90670-4619 • (562) 944-9713 • Fax (562) 941-1817 • www santafesprings.org

## Environmental Protection Division Customer Service Survey 2001/2002

Our goal is to provide you with the best possible service and your comments are vital to our success. Please help us serve you and the community better by taking a few minutes to answer the following questions:

☐ Workshop  Program elements applying to your business:  ☐ Hazardous Materials ☐ Hazardous Waste/Tiered Permitting ☐ Underground Tanks ☐ CalARP ☐ Fire Code ☐ Aboveground Tanks ☐ Other/Don't Know						
· ·				appropriate		
STATEMENTS	Strongly Agree	Agree	Disagree	Strongly Disagree		
Staff was courteous and helpful.	\$ <b>X</b>					
Staff provided information useful to our business.	X					
Information was provided promptly.	X		,			
My overall experience was positive.	Х					
CUPA permit process and forms are user-friendly & instructions clear.		×				
Would your business utilize:			I			
More environmental workshops offered for businesses?	×					
A City environmental website?	X					
A newsletter on regional and state environmental issues?	×					

If you have questions or additional comments, please do not hesitate to contact the Fire Department at (562) 944-9713 or e-mail at dave.klunk@sfsfire.org

This form may be mailed or faxed back to the Fire Department at the address and fax number above

**DICE 01007** 

# UNIFIED PROGRAM CONSOLIDATED FORM

# BUSINESS OWNER/OPERATOR IDENTIFICATION

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O'NEW BUSINESS: O.OUT OF BUSINESS PREVISE/URDATE (EFFECTIVE 1/2 / 1/0/1:0)	BROWN CARE A TO STORM OF THE AREA	PAGE / OF /
·L IDENTIFICATION		· 通過學院等、權利等
FACILITY. 10# 6 0 0 0 9 4		31/02
	BUSINESS PHONE 56	2 945 1383 102
BUSINESS SITE ADDRESS 8832 DICE ROAD		103 to 103
CITY SANTA RE SPRINGS	ZIP CODE 906	
DUN & BRADSTREET 05-981-9680	SIC CODE (4 digit #)	28/3
STANDARD SALES FOR THE SECOND SALES SA	UNINCORPORATED' []	Yes No 133a
BUSINESS OPERATOR NAME APRON L. TESCH	BUSINESS OPERATOR	PHONE 110
II. BUSINESS OWNER	and the state of the second	经存款 经连续工作 操作
OWNER NAME AIR LIGUIDE AMERICA III OWNER PHONE 7/3	624 80	00
OWNER MAILING ADDRESS 2700 POST CAN BLUD	desiral a first de sous de desiral de la companya d	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CITY HOUSTON	115 ZIP COD	77056 -116
TO THE PROPERTY OF THE PROPERT	n grad in financia.	THE REAL PROPERTY.
CONTACT NAME AARON LITES CH THE CONTACT PHONE 56	2 464-52	12 11 1 12 1118
CONTACT MAILING ADDRESS 8832 DICE ROAD		2 8
CITY SANTA FE SPRINGS 120 STATE CA.	121 ZIP CODI	90670 122
-PRIMARY-	-SE	CONDARY-
NAME AARUN L. TESCH 123 NAME LINDOLF	O CLEMENT	128.
TITLE PLANT MANAGER - 124 TITLE PRODUCT	ION LEAD	.129
FOIA ex 6, Personal Privacy FOIA ex 6, Personal Privac		
PAGER#	100000000000000000000000000000000000000	132
V. ADDITIONAL LOCALLY COLLECTED INFOR		<u> </u>
DESCRIPTION OF BUSINESS PROUSTRIAC GASES	<del>* **</del>	- (133b) - (135b) -
MAILING BILLING INFORMATION	No.	Phi page 2 and
ADDRESS 8832 DICE ROAD 1334 CITY SANTA FE SPRINGS	133e STATE (A) 1331	ZIP CODE 906 7839
Certification: Based on my inquiry of those individuals responsible for obtaining the information, I cert examined and em familiar with the information submitted and believe the information is true, accurate	ify under penalty of law tha , and complete	t I have personally
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE DATE	NAME OF DOCUMENT	PREPARER 135
NAME OF SIGNER (DUR)	AARON LIT	IESCH 137
NAME OF SIGNER (print)  AARON L. TESSCH	MANAGEX	2 13 1 13 1 13 1 13 1 13 1 1 1 1 1 1 1 1
OFFICIAL USE ONLY UP Form HW HM ARR ARR AST	UST TP	CUPA PA
INSPECTOR DISTRICT DATE OF INSP. DIVISION	BÂTTALIÓN	STATION
	<del></del>	<u> </u>

**DICE 01008** 

SFSFD UP FORM. (4/00 Version)
THE CUPAS OF LOS ANGELES COUNTY

02\_2730

11300 Greenstone Ave. • CA. • 90670-4619 • (562) 944-9713 • Fax (562) 941-1817 • www.santafesprings.org

March 4, 2002

Aaron Tesch Air Liquide 8832 Dice Santa Fe Springs, CA 90670

Re: Hazardous Materials Business Plan for 8832 Dice

Dear Mr. Tesch:

Thank you for completing your 2001/2002 Annual Unified Program Certification. You reported changes to your Hazardous Materials Business Plan. Please complete the enclosed forms and return by April 4, 2002. If you have any questions or need further assistance, please contact Barbara Chapman, Environmental Clerk II, at (562) 944-9713 ext. 138.

Sincerely,

Neal Welland,

Fire Chief

NW/drk/bc

Enclosure

February 19, 1997

County of San Bernardino 385 N. Arrowhead Avenue, 2<sup>nd</sup> Floor San Bernardino, CA 92415-0153

RE: LAI PROPERTIES, INC.

AIR LIQUIDE AMERICA CORPORATION

Dear Sir:

I am in receipt of a Release of Notice of Pendency of Administrative Proceedings filed by the County Fire Department - Hazardous Materials Division in San Bernardino County. The Release was forwarded in care of the law firm of Hanna & Morton, 600 Wilshire Blvd., 17<sup>th</sup> Floor, Los Angeles, CA 90017.

Please be advise that all future correspondence from San Bernardino County should be addressed as follows:

Air Liquide America Corporation P. O. Box 460229 Houston, Texas 77056-8229

Should you have any questions, please feel free to contact me at 713-624-8388.

Sincerely,

Donna Dailey Senior Paralegal

/me

## UNIFIED PROGRAM CONSOLIDATED FORM BUSINESS OWNER/OPERATOR IDENTIFICATION

□ NEW BUSINESS □ OUT OF BUSINESS □ REVISE/UPDATE (EFFECTIVE / /	) PAGE	OF
I. IDEN	TIFICATION	
FACILITY ID# (Fire Dept. use only)  1 9 0 4 9	1 BEGINNING DATE 100 ENDING DATE	101
BUSINESS NAME	3 BUSINESS PHONE	102
BUSINESS SITE ADDRESS		103
CITY	104 CA ZIP CODE	105
DUN & BRADSTREET	106 SIC CODE (4 digit #)	107
COUNTY LOS ANGELES	108 UNINCORPORATED Yes No	133a
BUSINESS OPERATOR NAME	109 BUSINESS OPERATOR PHONE	110
II. BUSINESS	OWNER	
OWNER NAME 111	OWNER PHONE	112
OWNER MAILING ADDRESS		113
CITY 114	STATE 115 ZIP CODE	116
III. ENVIRONA	ENTAL CONTACT	
CONTACT NAME 117	CONTACT PHONE	118
CONTACT MAILING ADDRESS		119
CITY 120	STATE 121 ZIP CODE	122
-PRIMARY- IV. EMERGEN	CY CONTACTS -SECONDARY-	
NAME 123	NAME	128
TITLE 124	TITLE	129
BUSINESS PHONE 125	BUSINESS PHONE	130
24-HOUR PHONE 126	24-HOUR PHONE	131
PAGER# 127	PAGER#	132
V. ADDITIONAL LOCALL	Y COLLECTED INFORMATION	
DESCRIPTION OF BUSINESS		133b
MAILING/ BILI	ING INFORMATION	
ADDRESS 133d CITY	133e STATE 133f ZIP CODE	133g
Certification Based on my inquiry of those individuals responsible for ol examined and am familiar with the information submitted and believe the	taining the information, I certify under penalty of law that I have personally information is true, accurate, and complete	
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134 NAME OF DOCUMENT PREPARER	135
NAME OF SIGNER (print)	136 TITLE OF SIGNER	137
OFFICIAL USE ONLY UP Form HW HM	ARP AST UST TP CUPA PA	
INSPECTOR DISTRICT DATE OF INSP	DIVISION BATTALION STATION	

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#### HAZARDOUS MATERIALS

### HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION

(one page per material per building or area)

	Page 1 of 46
1 LEACILITY INFOR	MATION
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	The first of the second of the second
AIR LIQUIDE CORPORATION AMERIC	
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL -
· · ·	CONFIDENTIAL - Yes ₩ No EPCRA
ACILITY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1	GRID# (optional) D7 (#45)
II. CHEMICAL INFOR	
CHEMICAL NAME	TRADE SECRET ☐ Yes ✔ No
ACETONE	If Subject o EPCRA, refer to instructions
COMMON NAME ACETONE	EHS⁺ ☐ Yes ☑ No
CAS#	ILEHS & Yes , all amounts below must be in
67-64-1	liss
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	Br. C. William P. William C. S. Marketter C. S
FL·1A	
HAZARDOÜS MATERIAL TYPE (Check one item only)	RADIOACTIVE Yes No CURIES
PHYSICAL STATE	LARGEST CONTAINER
(Check one item only) ☐ SOLID ☑ LIQUID ☐ GAS	6000
FED HAZARD CATEGORIES  (Check all that apply)  Fire Reactive Pressure Relea	se 📝 Acute Health 📝 Chronic Healt
(One on that apply)	
6000	ANNUAL WASTE STATE WASTE O CODE O
UNITS*   ☐ GALLONS ☐ CUBIC FEET ☐ POUND	S DAYS ON SITE 365
(Check one item only)	UIL .
Storage Container   Aboveground Tank   Plastic/Nonmetallic Dr   (Check all that apply)   Inderground Tan   Can	☐ Fiber Drum ☐ Glass Bottle ☐ Rail Car ☐ Bag ☐ Plastic Bottle ☐ Other
Tank Inside Buildin Carboy	Box Tote Bin
Steel Drum Silo	Cylinder Tank Wagon
STORAGE PRESSURE  a AMBIENT  b ABOVE AMBIENT	c BELOW AMBIENT
STORAGE TEMPERATURE ☑ a AMBIENT ☐ b ABOVE AMBIENT ☐	c BELOW AMBIENT d CRYOGENIC
%WT	ejonly) CAS#
1 99.90% ACETONE	☐ Yes <b>☑</b> No 67-64-1
2	☐ Yes ☑ No
3	
4	☐ Yes 📝 No
	☐ Yes 🗹 No
5	☐ Yes 🐼 No
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinog	enic, attach additional sheets of paper capturing the required information
ADDITIONAL LOCALLY COLLECTED INFORMATION	
	If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

#### HAZARDOUS MATERIALS INVENTORY HEMICAL DESCRIPTION

(one page per material per building or area) Page 2 of 46 I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** 6 0 0 0 9 4 MAP# (optional) GRID# (optional) C6 (#52), D6 (#20) 是他的初 II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET \_\_\_ Yes 😾 No **ACETYLENE** If Subject o EPCRA, refer to instructions COMMON NAME Yes No **ACETYLENE** CAS# "If EHS is "Yes", all amounts below must be in 74-86-2 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) FG CURIES 1AZARDOUS MATERIAL **RADIOACTIVE** Yes 🔽 No ■ MIXTURE WASTE PURE TYPE (Check one item only) ARGEST CONTAINER PHYSICAL STATE **✓** GAS SOLID LIQUID (Check one item only) 330 ED HAZARD CATEGORIES Pressure Release Acute Health ✓ Chronic Healt ✓ Fire ✓ì Reactive (Check all that apply) STATE WASTE VERAGE DAILY MAXIMUM DAILY ANNUAL WASTE 6100 0 6100 AMOUNT AMOUNT **\MOUNT** CODE JNITS\* DAYS ON POUNDS ☐ GALLONS CUBIC FEET TONS 365 Check one item only) SITE Storage Container Plastic/Nonmetallic Dr Fiber Drum ☐ Glass Bottle Rail Car Aboveground Tank Check all that apply) Can ☐ Bag Plastic Bottle Other Underground Tan ☐ Box 🔲 Tote Bin Tank Inside Buildin Carboy Steel Drum Silo Cylinder Tank Wagon ✓ a AMBIENT c below ambient STORAGE PRESSURE b ABOVE AMBIENT STORAGE TEMPERATURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) EHS ″ % WT 99 90% ACETYLENE 74-86-2 Yes No 2 Yes **₩** No 3 Yes Yes ✓ No 4 Yes ✓ No 5 Yes **✓** No I more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION

**DICE 01013** 

If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

# HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

I FACILITY INFORMATION	Fage 3 01 40
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	es, et promise tradition , manufactures de la proprieta en computation manufactures de la proprieta de la propr Est et promise tradition , manufactures de la proprieta en computation manufactures de la proprieta de la prop
AIR LIQUIDE CORPORATION AMERIC	
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL - Yes ✓ No EPCRA
AGILITY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (of	
AGIETY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (o	o <sup>tional)</sup> B4 (#39), C1
CHEMICAL NAME	TRADE SECRET
COMPRESSED AIR	TRADE SECRET ☐ Yes ✔ No If Subject o EPCRA, refer to instructions
COMMON NAME  COMPRESSED AIR	EHS* ☐ Yes ☑ No
CAS# N/A	"If EHS is: "Yes"; all amounts below must be in libs
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	And the second control of the second of the
HAZARDOUS MATERIAL  YPE (Check one item only)  □ PURE  MIXTURE □ WASTE RADIOACTIVE □ Y	'es ☑ No CURIES
PHYSICAL STATE (Check one item only) ☐ SOLID ☐ LIQUID ☑ GAS LARGEST CONTAINER 100,000	
ED HAZARD CATEGORIES  (Check all that apply)    Fire   Reactive   Pressure Release   Acute Health	Chronic Healt
AVERAGE DAILY 150000 MAXIMUM DAILY 150000 ANNUAL WASTE AMOUNT 0	STATE WASTE CODE
UNITS* ☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS Check one item only)	DAYS ON SITE 365
Storage Container	ottle Other
STORAGE PRESSURE a AMBIENT c BELOW AMBIENT	
STORAGE TEMPERATURE	d CRYOGENIC
The state of the s	IS CAS#
1 100 00% AIR	<b>₩</b> No
Yes	<b>⊘</b> No
Yes	<b>✓</b> No
Yes	<b>№</b> No
5 Yes	<b>☑</b> No
more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capit.	uning the required information
ADDITIONAL LOCALLY COLLECTED INFORMATION	
	If EPCRA, Please Sign Here

**DICE 01014** 

#### HAZARDOUS MATERIALS

#### HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION

(one page per material per building or area)

Page 4 of 46 I FACILITY INFORMATION 3USINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) 器6000 MAP# (optional) 9 B2, E1, H4 IL CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes V No ARGON GAS If Subject o EPCRA, refer to instructions COMMON NAME Yes V No ARGON GAS CAS# \*If EHS is "Yes", all amounts below must be in 7440-37-1 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOÜS MATERIAL CURIES RADIOACTIVE ✓ PURE ■ WASTE Yes **₩** No TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER SOLID LIQUID **✓** GAS (Check one item only) 110000 ED HAZARD CATEGORIES Fire Acute Health Chronic Healt Reactive Pressure Release (Check all that apply) VERAGE DAILY ANNUAL WASTE MAXIMUM DAILY STATE WASTE 200000 200000 0 MOUNT AMOUNT AMOUNT CODE JNITS\* DAYS ON ☐ TONS ☐ GALLONS **CUBIC FEET** POUNDS 365 Check one item only) SITE Storage Container Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Rail Car Aboveground Tank Check all that apply) Underground Tan Bag Plastic Bottle Other. Can Box Tote Bin Tank Inside Buildin Carboy Cylinder Steel Drum Silo ☐ Tank Wagon STORAGE PRESSURE a AMBIENT **b** ABOVE AMBIENT C BELOW AMBIENT STORAGE TEMPERATURE ■ b ABOVE AMBIENT C BELOW AMBIENT d CRYOGENIC ✓ a AMBIENT HAZARDOUS COMPONENT (For mixture or waste only): .≅% WT. 100 00% ARGON 7440-37-1 Yes **✓** No 2 Yes ✓ No 3 Yes **✓** No 4 Yes **₩** No 5 ☐ Yes No f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

**DICE 01015** 

#### **HAZARDOUS MATERIALS**

#### HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION

(one page per material per building or area)

Page 5 of 46 E FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes Vo EPCRA -MAP# (optional) ACILITY ID#A GRID# (optional) 6 0 0 0 9 4 E6. E7 II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes 🐼 No ARGON REFRIGERATED LIQUID If Subject o EPCRA, refer to instructions COMMON NAME EHS\* Yes V No ARGON REFRIGERATED LIQUID CAS# frEHS is Yes"; all amounts below must be in 7440-37-1 TRE CODE HAZARD CLASSES (Complete if required by CUPA) IAZARDOÚS MATERIAL CURIES RADIOACTIVE **№** No ✓ PURE ☐ MIXTURE Yes Yes YPE (Check one item only) LARGEST CONTAINER 'HYSICAL STATE ☐ GAS SOLID ✓ LIQUID (Check one item only) 48000 ED HAZARD CATEGORIES Chronic Healt Fire Reactive ✔ Pressure Release Acute Health (Check all that apply) ANNUAL WASTE STATE WASTE VERAGE DAILY MAXIMUM DAILY 48000 0 48000 **IMOUNT** AMOUNT AMOUNT CODE DAYS ON JNITS\* POUNDS TONS **✓** GALLONS CUBIC FEET 365 SITE Check one item only) Storage Container Fiber Drum ☐ Glass Bottle Rail Car ✓ Aboveground Tank Plastic/Nonmetallic Dr Check all that apply) ☐ Bag Plastic Bottle Other ☐ Underground Tan ☐ Can Box ☐ Carboy Tote Bin Tank Inside Buildin Steel Drum Silo Cylinder ☐ Tank Wagon C BELOW AMBIENT STORAGE PRESSURE ✓ b ABOVE AMBIENT ☐ a AMBIENT d CRYOGENIC STORAGE TEMPERATURE **b** ABOVE AMBIENT C BELOW AMBIENT a AMBIENT HAZARDOUS COMPONENT (For mixture or waste only) \* % WT. EHS 99.90% ARGON 7440-37-1 ✓ No Yes 2 Yes **₩** No 3 ☐ Yes **✓** No 4 Yes **✓** No 5 Yes **✓** No f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

#### HAZARDOUS MATERIALS INVENTORY HEMICAL DESCRIPTION

(one page per material per building or area)

Page 6 of 46 LFACILITY INFORMATION IUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION HEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** ACILITY;ID# GRID# (optional) 0 0 0 9 4 D7 (#8,#18), E7 (#7) II. CHEMICAL INFORMATION HEMICAL NAME TRADE SECRET Yes 😿 No CALCIUM CARBIDE If Subject o EPCRA, refer to instructions OMMON NAME Yes V No CALCIUM CARBIDE AS# "If,EHS is "Yes" all amounts below must be in 75-20-7 IRE CODE HAZARD CLASSES (Complete if required by CUPA) IAZARDOÙS MATERIAL CURIES RADIOACTIVE Yes **✓** No **✓** PURE WASTE YPE (Check one item only) LARGEST CONTAINER 'HYSICAL STATE **✓** SOLID LIQUID GAS Check one item only) 5500 ED HAZARD CATEGORIES ✓ Reactive Pressure Release Acute Health Chronic Healt **✓** Fire Check all that apply) STATE WASTE ANNUAL WASTE VERAGE DAILY MAXIMUM DAILY 290000 290000 0 MOUNT AMOUNT AMOUNT CODE INITS\* DAYS ON ☐ TONS GALLONS CUBIC FEET POUNDS 365 SITE Check one item only) Storage Container Rail Car Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Check all that apply) Underground Tan ☐ Bag Plastic Bottle Other ☐ Carboy Box ✓ Tote Bin Tank Inside Buildin Cylinder Steel Drum Silo S Tank Wagon STORAGE PRESSURE ✓ a AMBIENT b. ABOVE AMBIENT C BELOW AMBIENT ✓ a AMBIENT ■ b ABOVE AMBIENT C BELOW AMBIENT d CRYOGENIC STORAGE TEMPERATURE HAZARDOUS COMPONENT (For mixture or waste only) .,∴ÉHS∵ %:WT 99.90% CALCIUM CARBIDE 75-20-7 **✓** No 2 Yes **₩** No 3 Yes **₩** No 4 **₩** No Yes Yes 5 Yes **✓** No I more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

**DICE 01017** 

#### **HAZARDOUS MATERIALS**

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# HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

		Page 7 of 46
PETER STATE OF THE SECOND	NEORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)		COLORADO DE COMPANSA DE LA COLORADA DEL COLORADA DE LA COLORADA DEL COLORADA DE LA COLORADA DE L
AIR LIQUIDE CORPORATION AMERIC		
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL -	
	EPCRA .	Yes 🗹 No
ACILITY D#: 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional)	GRID# (optional) E1, H4	
	INFORMATION	
CHEMICAL NAME	TRADE SECRET	Yes ✔ No
CARBON DIOXIDE GAS	If Subject o EPCRA,	
COMMON NAME  CARBON DIOXIDE GAS	EHS*	] Yes 📝 No
CANBON DIOXIDE GAS	*If EHS is Yes", all amount	s helow must be in
124-38-9	lbs	
TIRE CODE HAZARD CLASSES (Complete if required by CUPA)	Tograms of the control of the contro	me an group of the second
MAZARDOÜS MATERIAL  YPE (Check one item only)  YPE (Check one item only)  YPURE   MIXTURE   WASTE	RADIOACTIVE ☐ Yes ☑ No CURIES	
PHYSICAL STATE	LARGEST CONTAINER	
(Check one item only) ☐ SOLID ☐ LIQUID ✓ GAS	50	
ED HAZARD CATEGORIES  (Check all that apply)  Fire Reactive Pressure	Release Acute Health Chronic Healt	-
Опеск ан так арруу		
VERAGE DAILY MAXIMUM DAILY AMOUNT 17000 AMOUNT 17000	ANNUAL WASTE STATE WASTE AMOUNT 0 CODE	0
INITS* ☐ GALLONS ☐ CUBIC FEET 🕡 F	POUNDS DAYS ON	365
Check one item only)  Storage Container Aboversund Tank Plastic/Nonmetallic Dr.	SITE	
Check all that apply)  Aboveground Tank  Plastic/Nonmetallic Dr  Underground Tan  Can	☐ Fiber Drum ☐ Glass Bottle ☐ Rail Car ☐ Bag ☐ Plastic Bottle ☐ Other	
Tank Inside Buildin Carboy	Box Tote Bin	
Steel Drum Silo	✓ Cylinder ☐ Tank Wagon	
STORAGE PRESSURE   a AMBIENT  b ABOVE AMBIENT	C BELOW AMBIENT	
STORAGE TEMPERATURE   a AMBIENT   b ABOVE AMBIENT	▼ c BELOW AMBIENT	
%WT HAZARDOUS COMPONENT (For mixture or	waste/only) EHS CAS	#
1 CO2	☐ Yes 📝 No	
2	☐ Yes 📝 No	
3	☐ Yes ☑ No	
4		
	Yes <b>⊘</b> No	
5	☐ Yes 🗹 No	
more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if	carcinogenic, attach additional sheets of paper capturing the required information	
DDITIONAL LOCALLY COLLECTED INFORMATION		
	If EPCRA, Please Sign	Here

#### HAZARDOUS MATERIALS

## HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

								Page	8 of 46
			ELEACILITY INF	ORMATION					
BUSINESS NAME (Same a	s FACILITY NAME or DBA	- Doing Business As)	DE DESIGNATION OF LAND	er og ser er e	ner service control of the control o	THE STATE OF THE S		2 (2 PM 2) (9 )	1245.4
•	RPORATION AMERIC	,							
CHEMICAL LOCATION						CHEMIC	AL LOCATION		
						EPCRA	,	res	<b>₩</b> No
ACILITY ID# 1 9	0 4 9 6 0	0 0 9 4 🤫	/AP# (optional) 1		GRID# (optio	nal) E3 (i	<b>#</b> 60)		
			II. CHEMICAL IN	FORMATION					
CHEMICAL NAME	ARBON MONOXIDE		The state of the s			TRADE S	ECRET	Yes	
COMMON NAME	ARBON MONOXIDE					EHS*	idbject o Er O	Yes	
CAS#	0-08-0	·- <u>-</u> ,					Yes"; all amo	unts below	must be in
FIRE CODE HAZARD CLAS		1 by CLIDA)				lbs			100
FG		D DY COPA)							
HAZARDOÜS MATERIAL TYPE (Check one item only)		MIXTURE	<b>₩</b> WASTE	RADIOACTIV	√E	<b>₩</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>⊘</b> GAS	LARGEST COI	NTAINER		I		
ED HAZARD CATEGORIE (Check all that apply)	S Fire	Reactive	✓ Pressure Re	lease 🔽	Acute Health	<b>✓</b> Chroni	c Healt		
AVERAGE DAILY AMOUNT		MAXIMUM DAILY AMOUNT	10000	ANNUAL WAS	TE 0		STATE WAS CODE	TE 0	
JNITS* Check one item only)	GALLONS	CUBIC F	EET POL	INDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	Aboveground Ta Underground Tai Tank Inside Build Steel Drum	n 🗌 Can	/Nonmetallic Dr	☐ Fiber Drur ☐ Bag ☐ Box ✔ Cylinder	m ☐ Glass Bottle ☐ Plastic Bott ☐ Tote Bın ☐ Tank Wago	le [	Rail Car Other		
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOV	E AMBIENT	c BELOW AM	IBIENT				
STORAGE TEMPERATUR			E AMBIENT	C BELOW AM	MBIENT d	CRYOGENI			
° γ′γ WT∂	<u> </u>	US COMPONENT	(For mixture of wa	ste only)	)。 注解 ···································		- , C	AS#%	
1 99.90% CA	ARBON MONOXIDE				☐ Yes 👽	No 630-	0-80		
2					☐ Yes 😾	No No			
3					☐ Yes 🔽	No No		·	
4		<del></del>			☐ Yes 😿	No			
5						No No			
more hazardous components a	re present at greater than 1% b	y weight if non-carcinogen	ic, or 0 1% by weight if card	inogenic, attach addition			formation	<del></del>	
ADDITIONAL LOCALLY CO	LLECTED INFORMATION	l.		* **.		<del></del>			
									ĺ
						If EPO	CRA. Please S	San Here	

**DICE 01019** 

#### HAZARDOUS MATERIALS

								Page	9 of 46
			, i, facility in	FORMATION.		<b>Partition</b>			
BUSINESS NAME (Same as	FACILITY NAME or DE	BA - Doing Business As)							
AIR LIQUIDE CORF	PORATION AMERI	C							
CHEMICAL LOCATION						CHEMIC CONFIDI EPCRA	AL LOCATION ENTIAL -	Yes	<b>₩</b> No
AGILITY ID# 1 9			//AP# (optional)	· 	GRID# (optiona	<u></u>		<u> </u>	
ACILITY ID# 1 9	0 4 9 6 0	0094		1	GKID# (Opilolia	<sup>1)</sup> B4 (	#41)	CONSTRUCTA	
			II. CHEMICAL II	NEORINATION					
	IUM LIQUID					TRADE S	SECRET Subject o EPCR		No Instructions
COMMON NAME HEL	LIUM LIQUID					EHS*		Yes	
CAS# 744	0-59-7					*If EHS is lbs	"Yes", all amou	nts.below i	must be in
FIRE CODE HAZARD CLASS	SES (Complete if require	ed by CUPA)				1-14-12-1-1-1-1	100 S		
HAZARDOÜS MATERIAL TYPE (Check one item only)	<b>₽</b> PURE	☐ MIXTURE	☐ WASTE	RADIOACTIVE	☐ Yes	<b>√</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	<b>☑</b> LIQUID	☐ GAS	LARGEST CONTAIL 13000	NER				
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure R	telease	te Health [	Chron	ıc Healt		
AVERAGE DAILY AMOUNT	13000	MAXIMUM DAILY AMOUNT	13000	ANNUAL WASTE AMOUNT	0		STATE WAST CODE	E 0	
UNITS* Check one item only)	<b>⊘</b> GALLONS	G CUBIC F	EET PO	OUNDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	☐ Aboveground T ☐ Underground T ☐ Tank Inside Bu ☐ Steel Drum	an 🔲 Can	/Nonmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☑ Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIEN	T 📝 b ABOV	E AMBIENT	C BELOW AMBIEN	NT .				
STORAGE TEMPERATURE	a AMBIEN	Γ □ b ABOV	E AMBIENT	C BELOW AMBIEN	VT 🔀 d (	RYOGEN	ic		
**************************************	HAZARD	OUS COMPONENT	(For mixture or v	vaste only)	EHS	能区的		\S#	
1 LIQ	UID HELIUM				🗌 Yes 🔽	No			
2				<del></del>	☐ Yes 🗸	No			
3					☐ Yes 🔽				
4					☐ Yes 🔽	No			
5	,				☐ Yes 🔽				
f more hazardous components are			ic, or 0 1% by weight if ca	arcinogenic, attach additional sl	heets of paper capturing th	e required in	formation		
ADDITIONAL LÕCALLY COL	LEGIED INFORMATIC	774							
						If EP	CRA, Please Si	gn Here	

#### **HAZARDOUS MATERIALS**

							Page 10 of 46
			I. FACILITY IN	FORMATION			
BUSINESS NAME (San	ne as FACILITY NAME or DBA	- Doing Business As	(\$-)	Andrew Andrews		The state of the s	
	CORPORATION AMERIC						
CHEMICAL LOCATION	ı					CHEMICAL LOCATION CONFIDENTIAL -	
	,				-	EPCRA	Yes Mo
ACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	MAP# (optional)		GRID# (optiona	D2 (#33)	
		(27)	II. CHEMICAL I	NEORMATION.			
CHEMICAL NAME	3.50		<u> </u>		3-7 "A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TRADE SECRET	Yes 🗹 No
	ETHYLENE OXIDE MIX	(OXYFUME 2002	)				RA, refer to instructions
COMMON NAME	ETHYLENE OXIDE					EHS*	✓ Yes  \[ \begin{align*} \text{No} \end{align*}
CAS#	75-21-8					"If EHS is "Yes", all amo	unts below must be in
FIRE CODE HAZARD (	CLASSES (Complete if require	d by CUPA)				To the providence of the second section of the	TO SEE THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S
<del></del>	FG						
HAZARDOÜS MATERIA TYPE (Check one item (		MIXTURE	WASTE	RADIOACTIVE	☐ Yes	No CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONT 400 CF	AINER		
FED HAZARD CATEGO (Check all that apply)	ORIES Fire	✓ Reactive	Pressure F	elease A	cute Health [	Chronic Healt	
AVERAGE DAILY AMOUNT	273	MAXIMUM DAILY AMOUNT	273	ANNUAL WASTE	0	STATE WAS CODE	TE 0
UNITS* (Check one item only)	☐ GALLONS	CUBIC	FEET P	OUNDS [	TONS	DAYS ON SITE	365
Storage Container (Check all that apply	Aboveground Ta Underground Ta Tank Inside Buil Steel Drum	n 🗌 Can	/Nonmetallic Dr ·	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon	☐ Rail Car ☐ Other	
STORAGE PRESSURE	E a AMBIENT	<b>☑</b> b ABOV	E AMBIENT	c BELOW AMB	IENT		
STORAGE TEMPERA	TURE a AMBIENT	☐ b ABOV	E AMBIENT	C BELOW AMB	IENT d (	CRYOGENIC	
% WT	HAZARDO	US COMPONEN	T <sub>e</sub> (For mixture or v	vaste only)	**************************************	I Maria C	AS# ***
1 10 00%	ETHYLENE OXIDE				<b>✓</b> Yes □	No 75-21-8	
2 53 00%	HCFC 124				☐ Yes 🔽	No 63933-10-3	
3 27 00%	HCFC 2				☐ Yes 🔽	No 124-38-9	
4					☐ Yes 🗸	No	
5					☐ Yes 🔽		
f more hazardous componer	nts are present at greater than 1% l	ny weight if non-carcinoge	nic or 0.1% by weight if c	arcinogenic, attach additiona	1		
	COLLECTED INFORMATION		110, 01 0 170 by Holght II 0	aronogomo, entropi de content		io required information	
						If EPCRA, Please S	Sign Here

**HAZARDOUS MATERIALS** 

AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION
CHEMICAL LOCATION CHEMICAL LOCATION
AIR LIQUIDE CORPORATION AMERIC  CHEMICAL LOCATION  CHEMICAL LOCATION
CONFIDENTIAL - ☐ Yes ☑ No
The state of the s
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (optional) D2 (#33)
是一个大型的一种大型的一种大型的一个大型的一种大型的一种大型的一种大型的一种大型的一种大型的一种大型的一种大型的一种
CHEMICAL NAME  ETHYLENE OXIDE MIX (CARBOXIDE)  TRADE SECRET ☐ Yes ✓ No  If Subject o EPCRA, refer to instructions
COMMON NAME  ETHYLENE OXIDE MIXTURE  EHS*  EHS*  Yes \[ \text{No} \]
CAS # 75-21-8 "If EHS is 'Yes', all amounts below must be in the second
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)  FG
HAZARDO'ÙS MATERIAL  TYPE (Check one item only)  □ PURE  ✓ MIXTURE  □ WASTE  RADIOACTIVE  □ Yes  ✓ No
PHYSICAL STATE (Check one item only)  SOLID □ LIQUID ✓ GAS  LARGEST CONTAINER  400
FED HAZARD CATEGORIES (Check all that apply)  Fire  Reactive Pressure Release  Acute Health  Chronic Healt
AVERAGE DAILY ANNUAL WASTE STATE WASTE OCODE 0
UNITS* ☐ GALLONS ☐ CUBIC FEET ☑ POUNDS ☐ TONS ☐ DAYS ON SITE 365
Storage Container (Check all that apply)    Aboveground Tank
STORAGE PRESSURE ☐ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT
STORAGE TEMPERATURE ☑ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT ☐ d CRYOGENIC
% WIT HAZARDOUS COMPONENT (För mixture or waste only)
1 8.50% ETHYLENE OXIDE
2 91 50% CARBON DIOXIDE ☐ Yes № No 124-38-9
yes ✓ No
4 Yes ✔ No
5 \ \tag{Yes \ \nabla No}
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information
ADDITIONAL LOCALLY COLLECTED INFORMATION
1f EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

								Page 1	2 01 45
			I. FACILITY INFO	ORMATION					
BUSINESS NAME (Same as F.	ACILITY NAME or DB	A - Doing Business As)							
AIR LIQUIDE CORPO	DRATION AMERIC	C				,	···		
CHEMICAL LOCATION						CONFIDE	L LOCATION NTIAL -	Yes	<b>✓</b> No
			·	- · · · · · · · · · · · · · · · · · · ·	<del></del>	EPCRA	-		
FACILITY ID# 1 9 0	4 9 6 0	0 0 9 4 M	IAP# (optional) 1		GRID# (optiona	<sup>l)</sup> B4 (#	42), C1, E1		
			II. CHEMICAL INF	ORMATION					
CHEMICAL NAME HELII	UM GAS					TRADE SE	CRET		✓ No nstructions
COMMON NAME HELII	UM GAS	-, -, -, -, -, -, -, -, -, -, -, -, -, -				EHS*		Yes	<b>✓</b> No
CAS# 7440-	-59-7				-	TIFEHS is!" lbs:	'es", all amou	nts below п	nust be in
FIRE CODE HAZARD CLASSE		ed by CUPA)				10000			
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>✓</b> PURE	MIXTURE	WASTE	RADIOACTIVE	☐ Yes	<b>√</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>⊘</b> GAS	LARGEST CONTAINER 200000		<u>_</u>			
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure Rel	ease 🗌 Acute H	ealth [	Chronic	: Healt		
AVERAGE DAILY AMOUNT	0	MAXIMUM DAILY AMOUNT	600000	ANNUAL WASTE AMOUNT	0		STATE WAST	E 0	
UNITS* (Check one item only)	GALLONS	€ CUBIC F	EET POU	NDS TO	NS 		DAYS ON SITE	365	
Storage Container [ (Check all that apply) [	Aboveground T Underground T Tank Inside Bu Steel Drum	an 🗌 Can	Nonmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other		· 
STORAGE PRESSURE	a AMBIEN	T ✓ b ABOVE	AMBIENT	c BELOW AMBIENT		<u>-</u>			
STORAGE TEMPERATURE	<b>⊘</b> a AMBIEN			c BELOW AMBIENT	E7	RYOGENIC		- " - Pillip De.	madeini arana
1 99.90% HEL	以於學司 [168] (149] [150] [150] [150]	OUS COMPONENT	(For mixture or wa	ste only)	EHS. ☐ Yes 🗸	No 7440-	ari, or other	\S#	
2					Yes 🔽				
3					☐ Yes 🔽	No			
4					☐ Yes 🔽	No			
5					Yes 🔽	No			
If more hazardous components are p	resent at greater than 1%	by weight if non-carcinogeni	c, or 0 1% by weight if carci	nogenic, attach additional sheets	of paper capturing th	e required info	rmation		
it more nazardous components are p			c, or 0 1% by weight it card	nogenic, attach additional sneets	ot paper captuning tr	e required into	rmation		
						If EPC	RA, Please Si	gn Here	

HAZARDOUS MATERIALS

	Page 13 of 46
L'FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC  CHEMICAL LOCATION  CHEMICAL	AL LOCATION
CONFIDE	ENTIAL - Yes ₩ No
	-
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 A MAP# (optional) GRID# (optional)	
III. CHEMICAL INFORMATION	
CHEMICAL NAME HYDROGEN GAS TRADE S If S	SECRET Yes V No Subject o EPCRA, refer to instructions
COMMON NAME HYDROGEN GAS	<b>✓</b> Yes ☐ No
1333.74.0	Yes: all amounts below must be in
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)  FG	
HAZARDOÜS MATERIAL  TYPE (Check one item only)  PURE ☐ MIXTURE ☐ WASTE RADIOACTIVE ☐ Yes ☑ No	CURIES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☐ LIQUID ☐ GAS  LARGEST CONTAINER 120000 CF	
FED HAZARD CATEGORIES (Check all that apply)  Fire ☐ Reactive ✔ Pressure Release ☐ Acute Health ☐ Chroni	c Healt
AMOUNT 1560 AMOUNT 1560 AMOUNT 0	STATE WASTE CODE 0
(Check one item only)	DAYS ON SITE 365
Storage Container (Check all that apply)  Underground Tank  Can  Bag  Plastic Bottle  Tank Inside Buildin  Steel Drum  Steel Drum  Carboy  Cylinder  Tank Wagon	Rail Car Other
STORAGE PRESSURE a AMBIENT c BELOW AMBIENT c BELOW AMBIENT	
STORAGE TEMPERATURE	
**************************************	CAS#
16.00	-74-0
<sup>2</sup>	
yes ₩ No	
4 ☐ Yes ▼ No	
5 □ Yes ☑ No	
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required inf	ormation
ADDITIONAL LOCALLY COLLECTED INFORMATION	
If EPC	CRA, Please Sign Here

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#### **HAZARDOUS MATERIALS**

LEFACILITY INFORMATION	Page 14 01 40
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC	
	CHEMICAL LOCATION CONFIDENTIAL - Yes No EPCRA
FACILITY: 10# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (optional)	E2, E3
II. CHEMICAL INFORMATION	
CHEMICAL NAME  METHANE	TRADE SECRET Yes V No If Subject o EPCRA, refer to instructions
COMMON NAME METHANE	EHS*
	If EHS is:", Yes", all amounts below must be in: os
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)  FG	ing king pada ing pang panggangan na mga akkaring panggan i
HAZADONIO MATEDIAI	No CURIES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☐ LIQUID ☑ GAS  LARGEST CONTAINER  335	
FED HAZARD CATEGORIES (Check all that apply)  ✓ Fire ☐ Reactive ☐ Pressure Release ☐ Acute Health ✓	Chronic Healt
AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE AMOUNT 10000 AMOUNT 0	STATE WASTE CODE
UNITS* ☐ GALLONS ☐ CUBIC FEET ☑ POUNDS . ☐ TONS (Check one item only)	DAYS ON SITE 365
Storage Container (Check all that apply)  Underground Tank  Can  Bag  Plastic Bottle  Carboy  Tank Inside Buildin  Steel Drum  Steel Drum  Steel Drum  Carboy  Carboy  Cylinder  Tank Wagon	Rail Car Other
STORAGE PRESSURE a AMBIENT c BELOW AMBIENT	
	RYOGENIC
%WT HAZARDOUS COMPONENT (For importure for waste) only). ÉHS  1 99.90% METHANE	CAS##
yes ₩ N	0
3 □ Yes ☑ N	——————————————————————————————————————
4 ☐ Yes ☑ N	0
5 ☐ Yes ☑ N	
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the ADDITIONAL LOCALLY COLLECTED INFORMATION.	required information
ADDITIONAL LOCALET GOLLEGIED IN GRIMATION	
	If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

## HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

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			I FACILITY IN	IFORMATION				
BUSINESS NAME (Same as FACII AIR LIQUIDE CORPORA		- Doing Business As)						
CHEMICAL LOCATION	TION AMERIC					CHEMICAL LOCA CONFIDENTIAL - EPCRA	TION Yes	<b>∠</b> No
ACILITY D# 1 9 0 4	9 6 0 0	1,500	AP# (optional)	1	GRID# (optional	C1, E1, F1,	H4, I4	
			II. CHEMICAL I	NFORMATION				
CHEMICAL NAME NITROG	EN GAS				<u>-</u>	TRADE SECRET  If Subject o	Yes Yes	
COMMON NAME NITROG	EN GAS				ı	EHS*	Yes	<b>⊘</b> No
CAS# 7727-37-	.9					TI(EHS is Yes", all. Ibs	amounts below:m	100
FIRE CODE HAZARD CLASSES (	Complete if required	by CUPA)				Section of Section 1997	HEALTH WASHINGTON	+12 1 1 7 7 18
HAZARDOÜS MATERIAL TYPE (Check one item only)	<b>₩</b> PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	✓ No CURIES		•
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTA	AINER	<del></del>		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure F	Release	cute Health	Chronic Healt		
AVERAGE DAILY AMOUNT 300	0000	MAXIMUM DAILY AMOUNT	300000	ANNUAL WASTE AMOUNT	0	STATE V CODE	WASTE 0	
JNITS* Check one item only)	GALLONS	<b>✓</b> CUBIC FI	EET P	OUNDS [	TONS	DAYS O SITE	N 365	
Check all that apply)	Aboveground Ta Underground Tar Fank Inside Build Steel Drum	n 🗌 Can	Nonmetallic Dr	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon	Rail C		
STORAGE PRESSURE	a AMBIENT	<b>☑</b> b ABOVE	AMBIENT	C BELOW AMBI	ENT			
STORAGE TEMPERATURE	a. AMBIENT	☐ b ABOVE		c BELOW AMBI		RYOGENIC		
1 NITRO	(A)	US COMPONENT	(For mixture or v	wäste only)	EHS.	200 P 12 DAY 1474 143	CAS# . #	
2			. ,		Yes 🔽			
3					☐ Yes 🔽 I	No		
4					Yes 🔽			
5					☐ Yes 🔽 I			
i more hazardous components are prese ADDITIONAL LOCALLY COLLECT		· · · · · · · · · · · · · · · · · · ·	c, or 0 1% by weight if c	arcinogenic, atlach addilional	sheets of paper capturing th	e required information		
						If EPCRA, Plea	ase Sign Here	

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#### **HAZARDOUS MATERIALS**

#### HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION TO THE MEMICAL DESCRIPTION

(one page per material per building or area)

Page 16 of 46 HEACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) ACILITY ID# MAP# (optional) 6 0 0 0 9 IL CHEMICAL INFORMATION HEMICAL NAME TRADE SECRET 🔲 Yes 😿 No NITROGEN REFRIGERATED LIQUID If Subject o EPCRA, refer to instructions COMMON NAME FHS\* Yes V No LIQUID NITROGEN AS# If EHS is Yes", all amounts below must be in 7727-37-9 TRE CODE HAZARD CLASSES (Complete if required by CUPA) IAZARDOUS MATERIAL CURIES RADIOACTIVE **✓** No **✓** PURE WASTE ☐ Yes YPE (Check one item only) LARGEST CONTAINER 'HYSICAL STATE SOLID **✓** LIQUID ☐ GAS (Check one item only) 11000 ED HAZARD CATEGORIES Fire ✓ Pressure Release Acute Health Chronic Healt Reactive (Check all that apply) VERAGE DAILY MAXIMUM DAILY ANNUAL WASTE STATE WASTE 17000 17000 0 MOUNT AMOUNT AMOUNT CODE DAYS ON JNJTS\* TONS **GALLONS** CUBIC FEET POUNDS 365 SITE Check one item only) Storage Container Fiber Drum Glass Bottle Aboveground Tank Plastic/Nonmetallic Dr Rail Car Check all that apply) Bag Plastic Bottle Underground Tan Can Other Box Tote Bin Tank Inside Buildin ☐ Carbov ☐ Tank Wagon Cylinder Steel Drum Silo STORAGE PRESSURE a AMBIENT **b** ABOVE AMBIENT C BELOW AMBIENT **b** ABOVE AMBIENT c BELOW AMBIENT d CRYOGENIC STORAGE TEMPERATURE a. AMBIENT HAZARDOUS COMPONENT (For mixture or waste only) - - - - % WT." EHS. CAS# NITROGEN LIQUID 99 90% 7727-37-9 Yes **V** No 2 Yes ✓ No 3 Yes **✓** No 4 Yes **✓** No 5 ☐ Yes ✓ No f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

**DICE 01027** 

#### HAZARDOUS MATERIALS

#### HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION

(one page per material per building or area) Page 17 of 46 LEFACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) FACILITY ID# MAP# (optional) 0094 E2 (#31) II. CHEMICAL INFORMATION CHEMICAL NAME 🗌 Yes 📝 No TRADE SECRET NITROUS OXIDE LIQUID If Subject o EPCRA, refer to instructions COMMON NAME Yes V No NITROUS OXIDE LIQUID CAS# "If EHS is "Yes", all amounts below must be in-10024-97-2 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOUS MATERIAL CURIES **✓** PURE MIXTURE WASTE RADIOACTIVE Yes **✓** No TYPE (Check one item only) LARGEST CONTAINER PHYSICAL STATE SOLID □ LIQUID GAS (Check one item only) 13000 FED HAZARD CATEGORIES Acute Health Chronic Healt Fire Reactive Pressure Release (Check all that apply) **NERAGE DAILY** MAXIMUM DAILY ANNUAL WASTE STATE WASTE 13000 13000 0 **AMOUNT** AMOUNT AMOUNT CODE JNITS\* DAYS ON POUNDS TONS **✓** GALLONS CUBIC FEET 365 Check one item only) SITE Storage Container ✓ Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Rail Car Check all that apply) Underground Tan ☐ Can Bag Plastic Bottle Other Tank Inside Buildin ☐ Carboy Box Tote Bin Steel Drum Silo Cylinder Tank Wagon a AMBIENT **b** ABOVE AMBIENT C BELOW AMBIENT STORAGE PRESSURE a. AMBIENT ■ b ABOVE AMBIENT STORAGE TEMPERATURE c BELOW AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) % WT EHS. CAS# 99 90% NITROUS OXIDE 10024-97-2 Yes **✓** No 2 Yes **✓** No 3 Yes **V** No 4 ☐ Yes **✓** No 5 Yes **✓** No I more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

								Page	18 of 46
			I. FACILITY IN	FORMATION					A. Kirin
BUSINESS NAME (Sam	ne as FACILITY NAME or DB	A - Doing Business As)					and the second	18 1150/FF	28/21-28/18/18
·	ORPORATION AMERIC	•							
CHEMICAL LOCATION						-	CAL LOCATION	N	
						EPCRA	ENTIAL -	Yes	<b>✓</b> No
ACILITY ID# 1 9	0 4 9 6 0	0 0 9 4 55 N	AP# (optional)	1	GRID# (option	nal) D2	(#33)		
			II CHEMICAL II	NFORMATION 6				10 A-74/A	
CHEMICAL NAME	** E	The second second	the product of the August	\$17.50 visited aproximate 53		TRADE	SECRET	□ Voc	<b>√</b> No
	SULFUR HEXAFLUOR	DE					Subject o EPC	RA, refer to	nstruction
COMMON NAME	CH END HEVAELHOD	DE				EHS*		Yes	<b>√</b> No
CAS#	SULFUR HEXAFLUORI					METUD IN	"Yes", all amo	únto báláis	
	2551-62-4					lbs .	Tes Fall allio	unis below	must be in
FIRE CODE HAZARD C	LASSES (Complete if require	d by CUPA)				<u> </u>	<u>ক্রিক্রাক্রাক্র ক্রাক্রিক্র</u>	ggt, Saki Kara	erusten te
	· · · · · · · · · · · · · · · · · · ·								
HAZARDOÜS MATERIA	J. ALDINDE	MIXTURE	WASTE	RADIOACTIVE	☐ Yes	<b>✓</b> No	CURIES		
FYPE (Check one item o PHYSICAL STATE	my)			LARGEST CONT					
(Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	287	AINLIN				
ED HAZARD CATEGO	RIES						. 11. 11		
(Check all that apply)	Fire	Reactive	✓ Pressure R		cute Health	Chror	nc Healt		
AVERAGE DAILY AMOUNT	17250	MAXIMUM DAILY AMOUNT	17250	ANNUAL WASTE	0		STATE WAS	TE 0	
JNITS*	GALLONS	CUBIC F	EET D		TONS		DAYS ON		
Check one item only)	GALLONS						SITE	0	
Storage Container Check all that apply	Aboveground Ta		Nonmetallic Dr	Fiber Drum	Glass Bottle	_	Rail Car		
oncon an inat apply	Underground 12			∐ Bag	☐ Plastic Bottl	e L	_ Other		
	☐ Tank Inside Buil	dın 🗌 Carboy 🔲 Sılo		☐ Box ✓ Cylinder	☐ Tote Bin☐ Tank Wago	n			
CTODACE PRESSURE			ANDIENT						
STORAGE PRESSURE	a AMBIENT	<b>√</b> b ABOVE	- AMBIEN I	C BELOW AMB	IEN I				_
STORAGE TEMPERAT	TURE 📝 a AMBIENT	b. ABOV	AMBIENT	c BELOW AMB	IENT d	CRYOGEN	IIC		
% % wr	HAZARD	OUS COMPONENT	(For mixture or w	/aste only)	EHS	20 Dr. 17 VI	The Cart C	ÀS#	AND A STATE OF
Legiture (1915) of the George State of the State of State	SULFUR HEXAFLUOR	Linda Sandra Grand Control of the Control	nt was the Section of Section (1999)	esprens. Elegano, en especia	☐ Yes 🗸	No 255	1-62-4	<b>为于自己的</b>	1 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2									
						No No			
3					☐ Yes 🗸	No			
4	}				🗌 Yes 🔽	No			
5					☐ Yes 🗸	No			
more hazardous componen	its are present at greater than 1% I	by weight if non-carcinogen	c, or 0 1% by weight if ca	arcinogenic, attach additiona			nformation	*	
DDITIONAL LOCALLY	COLLECTED INFORMATION	N:				·			
									Ì
						If EF	CRA, Please \$	sign Here	

#### HAZARDOUS MATERIALS

#### HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION

(one page per material per building or area) Page 19 of 46 L FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -🗌 Yes 🕢 No **EPCRA** 0 0 0 9 4 MAP# (optional) GRID# (optional) E4 (#56), E6, C1, I4 III CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET 🔲 Yes 📝 No OXYGEN GAS If Subject o EPCRA, refer to instructions COMMON NAME Yes V No **OXYGEN GAS** CAS# "If EHS is "Yes", all amounts below must be in-7782-44-5 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) **OXIDIZER** CURIES HAZARDOUS MATERIAL WASTE RADIOACTIVE Yes **✓** No **✓** PURE TYPE (Check one item only) LARGEST CONTAINER PHYSICAL STATE SOLID LIQUID **✓** GAS (Check one item only) 140000 FED HAZARD CATEGORIES Acute Health Chronic Healt Fire Reactive ✓ Pressure Release (Check all that apply) STATE WASTE ANNUAL WASTE AVERAGE DAILY MAXIMUM DAILY 250000 0 200000 AMOUNT AMOUNT AMOUNT CODE UNITS\* DAYS ON POUNDS TONS [ GALLONS CUBIC FEET 365 (Check one item only) SITE Storage Container Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Rail Car (Check all that apply) Can Bag Plastic Bottle Other Underground Tan Tank Inside Buildin Carbov Box Tote Bin Cylinder Steel Drum Silo Tank Wagon STORAGE PRESSURE a AMBIENT **b** ABOVE AMBIENT c below ambient C BELOW AMBIENT STORAGE TEMPERATURE ✓ a AMBIENT ■ b ABOVE AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) CAS# \* % WT EHS 99 90% OXYGEN 7782-44-5 ✓ No Yes 2 Yes **✓** No 3 ✓ No Yes 4 Yes ✓ No 5 Yes Yes **✓** No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

AIR LIQUIDE CORPO	ORATION AMERIC							AL LOCATION		
							CONFID EPCRA	ENTIAL -	∐ Yes	₩ No
AGILITYID# 1 9 C	4 9 6 0	0 0 9 4	MAP# (optional)			RID# (optiona	ıl)			
CHEMICAL NAME			II. CHEMIGAL	NFORMATION						
- · · · · · · · <del>-</del>	GEN REFRIGERA	TED LIQUID					TRADE S	SECRET Subject o EPC	Yes RA, refer to	₩ No Instruction
COMMON NAME LIQU	ID OXYGEN						EHS*		Yes	<b>√</b> No
AS # 7782-	44-7						*If EHS is lbs:	"Yes", all amo	unts below	7.21 = 2. 1. 2.0.
IRE CODE HAZARD CLASSE	S (Complete if require	d by CUPA)								
HAZARDOUS MATERIAL  YPE (Check one item only)	<b>₩</b> PURE	MIXTURE	WASTE	RADIOACT	IVE	Yes	<b>√</b> No	CURIES		
PHYSICAL STATE Check one item only)	SOLID	<b>☑</b> LIQUID	GAS	LARGEST CC 11000	ONTAINER					
ED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	✓ Reactive	✓ Pressure F	Release 🔽	Acute Healt	h [	Chron	ıc Healt		
VERAGE DAILY	17000	MAXIMUM DAILY AMOUNT	17000	ANNUAL WAS	STE	0		STATE WAS	TE 0	
NITS* Check one Item only)	<b>✓</b> GALLONS	CUBIC F	EET D	OUNDS	TONS			DAYS ON SITE	365	
Storage Container Check all that apply)	<ul><li>✓ Aboveground Ta</li><li>Underground Ta</li><li>Tank Inside Buil</li><li>Steel Drum</li></ul>	n 🔲 Can	/Nonmetallic Dr	☐ Fiber Dru ☐ Bag ☐ Box ☐ Cylinder	☐ Pla	ess Bottle estic Bottle te Bin nk Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	🗇 b ABOV	E AMBIENT	C BELOW A	MBIENT					
STORAGE TEMPERATURE	☐ a AMBIENT	☐ b ABOV	E AMBIENT	™ c BELOW A	MBIENT	₽ d (	RYOGEN	IC		
1 99 90% OXY	HAZARDO GEN	DUS COMPONEN	(For mixture or	vaste only)		⊬EHS Yes <b>∀</b>	32 3 TO 1	C-44-7	AS#	
2			<del></del> -			Yes 🗹	No			
3		· · · · · · · · · · · · · · · · · · ·	~ <del>~~</del>			Yes 🗹	No			
4						Yes 🔽	No			
5						Yes 🗹	No			
more hazardous components are p			ic, or 0 1% by weight if o	arcinogenic, attach addit	ional sheets of pa	er capturing th	e required in	formation.		
DDITIONAL LOCALLY COLL	ECTED INFORMATION	٧٠								
							If EP	CRA, Please S	Sian Here	

#### HAZARDOUS MATERIALS

L FACILITY INFORMATION	rage 21 01 40
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC	
	CHEMICAL LOCATION CONFIDENTIAL - Yes V No EPCRA
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional)	
III. CHEMICAL INFORMATION	
CHEMICAL NAME PETORLEUM BASED MOTOR OIL	TRADE SECRET ☐ Yes ☑ No If Subject o EPCRA, refer to instructions
COMMON NAME  MOTOR OIL	EHS* ☐ Yes ☑ No
	If EHS is "Yes"; all amounts below must be in bs.
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)  CL-IIIB	
HAZARDOÜS MATERIAL  TYPE (Check one item only)  □ PURE  □ MIXTURE  □ WASTE  RADIOACTIVE  □ Yes	No CURIES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☑ LIQUID ☐ GAS  LARGEST CONTAINER  55	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Pressure Release ☐ Acute Health ☐	Chronic Healt
AVERAGE DAILY MAXIMUM DAILY AMOUNT 110 AMOUNT 0	STATE WASTE CODE 0
UNITS*   ☐ CUBIC FEET ☐ POUNDS ☐ TONS  [Check one item only)	DAYS ON SITE 365
Storage Container (Check all that apply)  Aboveground Tank  Plastic/Nonmetallic Dr  Bag  Plastic Bottle  Can  Bag  Plastic Bottle  Carboy  Steel Drum  Silo  Cylinder  Tank Wagon	Rail Car Other
STORAGE PRESSURE	
	RYOGENIC
%-W/T. HAZARDOUS COMPONENT (For mixture or waste only)	284 1.50 C.
OIL Yes 🐼 N	lo
Yes ✓ N	lo
Yes ₩ N	lo
4 ☐ Yes ☑ N	lo
5 ☐ Yes ☑ N	0
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the	required information
ADDITIONAL LOCALLY COLLECTED INFORMATION	
	If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

								Page 2	22 of 46
				FORMATION -					
BUSINESS NAME (Same as F	ACILITY NAME or DB	A - Doing Business As)	T. S.		. <u> </u>				2
AIR LIQUIDE CORP	ORATION AMERIC	·							
CHEMICAL LOCATION						CHEMIC CONFIDI EPCRA	AL LOCATION ENTIAL -	Yes	<b>₩</b> No
FACILITY ID# 1 9	149560	0 0 9 4	IAP# (optional)		GRID# (optional		#17\		
			II. CHEMICAL IN	IFORMATION					
CHEMICAL NAME	SECOND PARTICIPATION OF THE	可性等原则,是在1960年最后安全的。	<u>中国的特殊的第三人称形式的</u>			TRADE S	FCRET	☐ Yes	<b>√</b> No
PRO	PANE						Subject o EPCF		
COMMON NAME PRO	PANE					EHS*			<b>✓</b> No
CAS # 74-98	3-6				· · ·	*If EHS is lbs:	Yes", all amou	nts below	must be in
FIRE CODE HAZARD CLASSI	ES (Complete if require	d by CUPA)						<i>3.7.1</i>	
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>₽</b> PURE	MIXTURE	WASTE	RADIOACTIVE	☐ Yes	<b>√</b> No	CURIES	<del></del>	
PHYSICAL STATE (Check one item only)	SOLID	☐ LIQUID	<b>₩</b> GAS	LARGEST CONTAINE 4200	R				
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	Pressure Re	elease	Health [	Chron	c Healt		
AVERAGE DAILY AMOUNT	5000	MAXIMUM DAILY AMOUNT	5000	ANNUAL WASTE AMOUNT	0		STATE WAST CODE	E	
UNITS* (Check one item only)	GALLONS	CUBIC F	EET 📝 PO	UNDST	ONS		DAYS ON SITE	365	
Storage Container (Check all that apply) [	Aboveground Ta Underground Ta Tank Inside Buil Steel Drum	an 🗌 Can	Nonmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	<b>☑</b> b ABOVE	E AMBIENT	c BELOW AMBIENT			<del></del>		
STORAGE TEMPERATURE	<b>∠</b> a AMBIENT	☐ b ABOVE	E AMBIENT	c BELOW AMBIENT	☐ d C	RYOGENI	C		
% WT 1 99.90% PRC	HAZARDO PANE	OUS COMPONENT	(For mixture or w	aste only)	EHS Yes 🔽	No 74-9	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	\S#\ <u>`</u>	
2					Yes 📝				
3		<del>_</del> _			Yes 🗹				
4					Yes 🗹	No			
5					Yes 🗹	No			
If more hazardous components are p	resent at greater than 1% i	by weight if non-carcinogen	c, or 0 1% by weight if ca	rcinogenic, attach additional shee	ts of paper capturing the	e required in	formation		
ADDITIONAL LOCALLY COLL	ECTED INFORMATION	N							
						If EP	CRA, Please Si	gn Here	

#### HAZARDOUS MATERIALS

							Pag	e 23 of 46
			I. FACILITY INF	ORMATION ::				
BUSINESS NAME (Same as	FACILITY NAME or DE	BA - Doing Business As)	A PROPERTY OF THE PROPERTY OF THE	The state of the s	me was an employed at the St. 21 Ac.	a new a la properties.	Commence of the Property of th	
AIR LIQUIDE CORF				-				
CHEMICAL LOCATION	·	· · · · · · · · · · · · · · · · · · ·				CHEMICAL	LOCATION	
						CONFIDENT	TAL - Y	es 📝 No
					· ·	EPCRA	·	· -
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	1AP# (optional) 1		GRID# (optional	) D6 (#1	9)	
			II: CHEMICAL IN	FORMATION				
CHEMICAL NAME		See And Total Control of the Control		ANTO THE PARTY OF THE ANTONIO		TRADE SEC	RET □ V	es 🔽 No
CAL	CIUM CHLORIDE						ect o EPCRA, refe	
COMMON NAME						EHS*		es 📝 No
CAL	CIUM CHLORIDE							
CAS#							s", all amounts;belo	ow must be in a
	43-52 <b>-</b> 4		· · · · · · · · · · · · · · · · · · ·			lbs:		
FIRE CODE HAZARD CLASS	SES (Complete if require	ed by CUPA)						
				<del></del>				
HAZARDOÙS MATERIAL TYPE (Check one item only)	PURE		WASTE     ■ WASTE	RADIOACTIVE	☐ Yes	<b>√</b> No Cl	IRIES	
				ADOCCT CONTAI				
PHYSICAL STATE (Check one item only)	✓ SOLID	LIQUID	GAS	LARGEST CONTAI	NEK			
FED HAZARD CATEGORIES	<del></del>			400				
(Check all that apply)	Fire	Reactive	☐ Pressure Re	lease 🗌 Acu	te Health	🛚 Chronic I	lealt	
AVERAGE DAILY		MAXIMUM DAILY	<del></del>	ANNUAL WASTE		ST	ATE WASTE	
AMOUNT	8000	AMOUNT	8000	AMOUNT	0		DDE 0	
UNITS*	GALLONS	S CUBIC F	EET 🗹 POL	JNDS 🗆	TONS	I	YS ON 365	1
(Check one item only)						SI	E 365	·
Storage Container (Check all that apply)	☐ Aboveground T		Nonmetallic Dr	Fiber Drum	Glass Bottle	□ F	Rail Car	
(Oneon all that apply)	Underground T			Bag	Plastic Bottle		Other	
	Tank Inside Bu			∐ Вох	☐ Tote Bin	_		
	Steel Drum	Silo		Cylinder	Tank Wagon			
STORAGE PRESSURE	a AMBIEN	T 🗌 b ABOVE	AMBIENT	c BELOW AMBIE	NΤ			
STORAGE TEMPERATURE	a AMBIEN	T b ABOVE	EAMBIENT	c BELOW AMBIEN	NTd C	RYOGENIC		
**************************************	HAZARD	OUS COMPONENT	(For mixture or wa	iste only)	A SEHS	ie Kalia	CAS#	Value 1
1 99 90% CAI	LCIUM CHLORIDE	A COLUMN PORTRE DE LA CONTRACTION DE L	11 All BACK FOR ACTUAL	Andreas Control Control Control Control	TO THE COLUMN THE COLU	10043-	72-4	Safest Signature
2					Yes 🔽 I	10		
3					Yes 🗸 I	vo l		
4								
					Yes 🔽	10		
5					☐ Yes 🔽 I	10		
f more hazardous components are	present at greater than 1%	by weight if non-carcinogen	ic, or 0 1% by weight if care	cinogenic, attach additional s	heets of paper capturing the	required inform	ation.	
ADDITIONAL LOCALLY COL	LECTED INFORMATIC	DN.						
								-
						If EDOD	N Diegna Dies Uni	
			·			II EPCR	A, Please Sign Her	e

#### HAZARDOUS MATERIALS

			return to the second of the second			- Total California	ang it in mangalang projet in	Page 2	24 OI 40
			I. FACILITY IN	FORMATION					
BUSINESS NAME (Same as F		•							
AIR LIQUIDE CORP	ORATION AMERIC	<u> </u>				CUENTO	AL LOCATION		
CHEMICAL LOCATION							AL LOCATION ENTIAL -	Yes	No No
ACILITY ID# 1 9	0 4 9 6 6 0	0 0 9 4		70 11 1	GRID# (optiona	<sup>al)</sup> 124-	-38-9	nn *** (16 a.o	
			II. CHEMICAL II	VEORMATION:					
HEMICAL NAME CAR	BON DIOXIDE RE	FRIGERATED LIQ	UID			TRADE S	SECRET Subject o EPCR	Yes A, refer to	
COMMON NAME CAR	BON DIOXIDE LIQ	UID				EHS*		Yes	<b>✓</b> No
CAS # 124-3	38-9						"Yes", all amou		
TRE CODE HAZARD CLASS	ES (Complete if require	ed by CUPA)				Liers			
IAZARDOÜS MATERIAL YPE (Check one item only)	<b>₽</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES		-
PHYSICAL STATE Check one item only)	SOLID	FIQUID	☐ GAS	LARGEST CONTAIN 13000	NER				
ED HAZARD CATEGORIES Check all that apply)	Fire	Reactive	✓ Pressure R	elease 🗸 Acu	te Health	Chron	ıc Healt		
VERAGE DAILY MOUNT	13000	MAXIMUM DAILY AMOUNT	13000	ANNUAL WASTE AMOUNT	0		STATE WAST	E	
INITS* Check one item only)	<b>✓</b> GALLONS	CUBIC F	EET PO	DUNDS []	TONS		DAYS ON SITE	365	
torage Container Check all that apply)	Aboveground Ta Underground Ta Tank Inside Bui Steel Drum	an 🗌 Can	Nonmetallic Dr	│ Fiber Drum │ Bag │ Box │ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	b ABOVI	E AMBIENT	© c BELOW AMBIEN	NT				
STORAGE TEMPERATURE	a AMBIENT			© c BELOW AMBIEN	IT D d	CRYOGEN	ic		
1   CO2	<b>建设设计划的公司是必须数据</b>	OUS COMPONENT	(For mixture or v	vaste only)	EHS.	A. 30 40 0 100 11 X 12	C	\S#	
2					Yes Y				
3					☐ Yes 🔽				
4					☐ Yes 🔽	No			
5					☐ Yes 🔽				
more hazardous components are p	·	•	ic, or 0 1% by weight if ca	arcinogenic, attach additional sl	neets of paper capturing to	ne required in	formation		
DDITIONAL LOCALLY COLL	ECTED INFORMATIO	N.							
	•					If EP	CRA, Please Si	gn Here	
								-	

#### **HAZARDOUS MATERIALS**

#### HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION

(one page per material per building or area)

Page 25 of 46 1. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) 6 0 0 0 9 4 MAP# (optional) FACILITY ID# E7, (#5) IL CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes 📝 No **PROPYLENE** If Subject o EPCRA, refer to instructions COMMON NAME Yes No PROPYLENE CAS# "If EHS is "Yes", all amounts below must be in 115-07-1 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) CURIES HAZARDOÜS MATERIAL ✓ PURE MIXTURE WASTE RADIOACTIVE Yes **✓** No TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER GAS SOLID LIQUID (Check one item only) 8700 FED HAZARD CATEGORIES Chronic Healt **✓** Fire Reactive Pressure Release Acute Health (Check all that apply) MAXIMUM DAILY ANNUAL WASTE STATE WASTE AVERAGE DAILY 8700 9000 0 AMOUNT AMOUNT AMOUNT CODE DAYS ON UNITS\* ☐ TONS GALLONS **✓** POUNDS CUBIC FEET 365 SITE (Check one item only) Storage Container Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Rail Car Aboveground Tank (Check all that apply) Underground Tan Can Bag Plastic Bottle Other Tank Inside Buildin Carboy Box Tote Bin Steel Drum Silo ✓ Cylinder Tank Wagon c BELOW AMBIENT a AMBIENT b ABOVE AMBIENT STORAGE PRESSURE C BELOW AMBIENT STORAGE TEMPERATURE a AMBIENT ■ b ABOVE AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) %WT EHS CAS# 99 90% PROPYLENE 115-07-1 ✓ Yes ☐ No 2 Yes **✓** No 3 Yes **₩** No 4 Yes ✓ No 5 ☐ Yes 🗸 No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION.

If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

### HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION

(one page per material per building or area)

	Page 26 of 46
EL FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION C	CHEMICAL LOCATION
	CONFIDENTIAL - Yes V No
FACILITY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional)	D1, D2
IL CHEMICAL INFORMATION	
CHEMICAL NAME  NITROUS OXIDE GAS	RADE SECRET Yes 📝 No If Subject o EPCRA, refer to instructions
COMMON NAME  NITROUS OXIDE GAS	HS* ☐ Yes ☑ No
CAS# 10024-97-2 lbs	EHS is "Yes", all amounts below must be in
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	and the state of t
HAZARDOÙS MATERIAL  TYPE (Check one item only)  ✓ PURE	No CURIES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☐ GAS  LARGEST CONTAINER 365	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Fire ☐ Reactive ☑ Pressure Release ☐ Acute Health ☐	Chronic Healt
AVERAGE DAILY AMOUNT  MAXIMUM DAILY AMOUNT  AMOUNT  AMOUNT  ANNUAL WASTE AMOUNT  0	STATE WASTE CODE 0
UNITS* ☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS	DAYS ON SITE 365
Storage Container   Aboveground Tank   Plastic/Nonmetallic Dr   Fiber Drum   Glass Bottle	Rail Car Other
STORAGE PRESSURE ☐ a AMBIENT ☑ b. ABOVE AMBIENT ☐ c BELOW AMBIENT	
STORAGE TEMPERATURE	YOGENIC
% WT HAZARDOUS COMPONENT (For mixture or waste only): EHS  1 NITROUS OXIDE □ Yes ☑ No	CAS#
2	<u> </u>
3 ☐ Yes ☑ No	
4 ☐ Yes ✔ No	
5 ☐ Yes ☑ No	
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the re	equired information
ADDITIONAL LOCALLY COLLECTED INFORMATION	
	If EPCRA, Please Sign Here

**DICE 01037** 

#### HAZARDOUS MATERIALS

								Page 2	7 of 46
			L FACILITY IN	IFORMATION 📲 🖳					
BUSINESS NAME (Same as	FACILITY NAME or DB	A - Doing Business As)				2711	18. S. S. S. S. Hard, S.	ALTERNATION OF STREET	(1000 N. 10 B. 100 N. 100
AIR LIQUIDE CORF	ORATION AMERIC	CA							
CHEMICAL LOCATION			<del></del>				AL LOCATION ENTIAL -	Yes	<b>✓</b> No
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4 M	IAP# (optional)		GRID# (optiona	<u> </u>	#60)		
			II CHEMICAL I	NEORMATION					
CHEMICAL NAME ETH	YLENE					TRADE S	SECRET Subject o EPCF	Yes	✓ No instructions
COMMON NAME	TYLENE					EHS*	····	Yes	
CAS# 74-8							"Yes", all amou	ints below r	nust be in .
		A h., CUIDA)				lbs:			
FIRE CODE HAZARD CLASS	2E2 (Complete ii require	ed by COPA)							
HAZARDOÙS MATERIAL TYPE (Check one item only)	<b>₩</b> PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	<b>√</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>☑</b> GAS	LARGEST CONTAINE 414	R		-		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure F	Release Acute	Health •	Chron	ıc Healt		
AVERAGE DAILY AMOUNT	3000	MAXIMUM DAILY AMOUNT	3000	ANNUAL WASTE AMOUNT	0		STATE WAST	E	
UNITS* (Check one item only)	☐ GALLONS	CUBIC F	EET 🔽 PO	OUNDS T	ONS		DAYS ON SITE	0	
Storage Container (Check all that apply)	Aboveground To Underground To Tank Inside Bur Steel Drum	an 🗌 Can	Nonmetallic Dr	☐ Fiber Drum	Glass Bottle Plastic Bottle Tote Bın Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	₩ b ABOVE	AMBIENT	C BELOW AMBIENT					
STORAGE TEMPERATURE	a AMBIENT	_ b ABOVE	AMBIENT	c BELOW AMBIENT	☐ d (	RYOGEN	C		
% WT	CALL STREET OF STREET	OUS COMPONENT	(For mixture or v	vaste only)	EHS	4.		AS#i	
1 99 90% ETI	HYLENE				Yes 🔽		5-1		
3	<u></u>				Yes Y				
4					Yes 🗸				
5					Yes 🔽				
If more hazardous components are	present at greater than 1%	by weight if non-carcinogeni	c, or 0 1% by weight if c	arcinogenic, attach additional shee			formation		
ADDITIONAL LOCALLY COL	LECTED INFORMATIO	N							
						It ED/	CRA, Please Si	ian Usra	
						11 EP	JINA, FIEdSE SI	gii nere	

#### **HAZARDOUS MATERIALS**

### HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION

(one page per material per building or area)

								Page 2	8 01 46
			FACILITY	FORMATION: 3.25			17.112.711.65		
BUSINESS NAME (Same as	FACILITY NAME or DE	BA - Doing Business As)	region to start the second second	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		service STOP dailed	manufacture of the second	A STATE OF THE PARTY.	
AIR LIQUIDE CORF									
CHEMICAL LOCATION							AL LOCATION ENTIAL -		
						EPCRA	ENTIAL -	Yes	<b>✓</b> No
FACILITYID# 1 9	0 4 9 6 0	0 0 9 4 M	IAP# (optional)	1	GRID# (optional	al) C2			
			II. CHEMICAL I	NEORMATION		A PART			
CHEMICAL NAME NEC	ON.					TRADE	SECRET [ Subject o EPCRA	Yes	
COMMON NAME						EHS*		Yes	
NEC	ON								
CAS# 7440	0-01-9				,	II EHS is	Yes" all amount	s below n	nust be in:
FIRE CODE HAZARD CLASS	SES (Complete if requir	ed by CUPA)			<u>-</u>				
HAZARDOÜS MATERIAL TYPE (Check one item only)	<b>✓</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES		• •
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN 261	NER		1		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure F	Release	te Health	Chron	ıc Healt		
AVERAGE DAILY AMOUNT	5200	MAXIMUM DAILY AMOUNT	5200	ANNUAL WASTE AMOUNT	0		STATE WASTE	0	
UNITS* (Check one item only)	☐ GALLONS	S ✓ CUBIC F	EET P	OUNDS	TONS		DAYS ON SITE	0	
Storage Container (Check all that apply)	Aboveground T		Nonmetallic Dr	Fiber Drum	Glass Bottle		Rail Car		
(onook all that upply)	Underground T			Bag	☐ Plastic Bottle	:	Other		,
	Tank Inside Bu			Box	☐ Tote Bin				
	Steel Drum	Silo		✓ Cylinder	Tank Wagon			_	
STORAGE PRESSURE	a AMBIEN	T	AMBIENT	c BELOW AMBIEN	NT				
STORAGE TEMPERATURE	a AMBIEN	T 🗌 b ABOVE	AMBIENT	C BELOW AMBIEN	√T □ d.	CRYOGEN			
% WT,	HAZARD	OUS COMPONENT	(For mixture or v	vaste only) → 🕅	gs de vy-EHS		er÷÷†CAS	3# N 1.3	
1 NE	ON				☐ Yes 🗹	No			
2					☐ Yes 🗹	No			
3					☐ Yes 🗹	No			
4					☐ Yes 🛂	No	·		
5					☐ Yes 🛂	No			-
If more hazardous components are	present at greater than 1%	by weight if non-carcinogeni	c, or 0 1% by weight if c	arcinogenic, attach additional sl	heets of paper capturing t	he required in	formation		
ADDITIONAL LOCALLY COL	LECTED INFORMATIO	ON .						_	
						lf EP	CRA, Please Sigi	n Here	
					<del></del> -				

#### HAZARDOUS MATERIALS

								Page 29 of 46
			I. FACILITY IN	FORMATION:		e see a		
BUSINESS NAME (Same as	FACILITY NAME or DB	A - Doing Business As)					<u> </u>	
•	PORATION AMERIC	,						
CHEMICAL LOCATION						CONFID	CAL LOCATION ENTIAL -	Ves ₩ No
		The state of the s			· -	EPCRA		
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	AP# (optional)	1	GRID# (option	al) D2	(#33)	
			II. CHEMICAL II	NFORMATION				
CHEMICAL NAME TR	IFLUOROMETHANE					TRADE If		Yes V No RA, refer to instructions
COMMON NAME HA	LOCARBON 23					EHS*		☐ Yes 🔽 No
CAS# 75-	46-7	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<del></del>			*If EHS is	"Yes", all amou	unts below must be in
FIRE CODE HAZARD CLAS	SSES (Complete if require	ed by CUPA)					T. Palaule <u>, 18</u> 80	
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>₽</b> PURE	MIXTURE	☐ WASTE	RADIOACTIVE	☐ Yes	<b>№</b> No	CURIES	
PHYSICAL STATE (Check one Item only)	SOLID	□ LIQUID	<b>☑</b> GAS	LARGEST CONTAI 385	INER			
FED HAZARD CATEGORIE (Check all that apply)	S Fire	Reactive	✓ Pressure R	elease	ite Health	<b>✓</b> Chron	ıc Healt	
AVERAGE DAILY AMOUNT	7700	MAXIMUM DAILY AMOUNT	10000	ANNUAL WASTE AMOUNT	0		STATE WAS	TE 0
UNITS* (Check one item only)	☐ GALLONS	<b>✓</b> CUBIC F	EET PO	DUNDS	TONS	···	DAYS ON SITE	365
Storage Container (Check all that apply)	☐ Aboveground T ☐ Underground Tank Inside But ☐ Steel Drum	an 🔲 Can	Nonmetallic Dr	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagor	e [	Rail Car Other	
STORAGE PRESSURE	a AMBIENT	<b>₩</b> b ABOVE	E AMBIENT	c BELOW AMBIE	NT			
STORAGE TEMPERATUR		,	E AMBIENT	c BELOW AMBIE	NT d	CRYOGEN	IC	
%WT	The safe of the safe of the safe of the safe of	OUS COMPONENT	(For mixture or w	vaste only)	EHS.		Ç.	AS#1
1 99 90% FL	UOROFORM				☐ Yes 🔽	No 75-4	6-7	
2					☐ Yes 🗸	No		
3						No	<del></del>	
4					🗌 Yes 🔽	No		
5					!	No		
f more hazardous components ar			ic, or 0.1% by weight if ca	ercinogenic, attach additional s	sheets of paper capturing	the required in	formation	
ADDITIONAL LOCALLY CO	LLEGTED INFORMATIO	IV.						
			· · · · · · · · · · · · · · · · · · ·			If EP	CRA, Please S	Sign Here

#### HAZARDOUS MATERIALS

								Page 30 of 46
To be to a little of the state			I. FACILITY INF	ORMATION				
BUSINESS NAME (San	ne as FACILITY NAME or D	DBA - Doing Business As)				2.57% 4.5° 2.05° 2.02°	63.7446F1446.4-5121	
AIR LIQUIDE C	ORPORATION AMER	RIC						
CHEMICAL LOCATION							AL LOCATION	
						EPCRA	ENTIAL -	Yes 🔽 No
FACILITY ID# 1 9	0 4 9 6 0	0 0 0 9 4	MAP# (optional)		GRID# (optiona	l) D2	(#33)	
			II. CHEMICAL IN	FORMATION ::				
CHEMICAL NAME	HEXAFLUOROETHAI	.NE				TRADE		Yes Mo
COMMON NAME	HALOCARBON 116		·	····-		EHS*		☐ Yes 🗹 No
CAS#	76-16-4						"Yes", all amou	ints below must be i
FIRE CODE HAZARD (	CLASSES (Complete if requ	uired by CUPA)				lbs.		
0002,	E 10020 (Complete ii 1042	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
HAZARDOÜS MATERIA TYPE (Check one item o		MIXTURE	WASTE	RADIOACTIVE	Yes	<b>√</b> No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAI 266	NER	· · ·		
FED HAZARD CATEGO (Check all that apply)	PRIES Fire	Reactive	✓ Pressure Re	lease	te Health	Chron	ic Healt	
AVERAGE DAILY AMOUNT	1200	MAXIMUM DAILY AMOUNT	1200	ANNUAL WASTE AMOUNT	0		STATE WAST	TE 0
UNITS* (Check one item only)	GALLON	NS CUBIC F	EET POL	JNDS	TONS		DAYS ON SITE	365
Storage Container Check all that apply	/) Aboveground Underground Tank Inside B Steel Drum	Tan 🔲 Can	/Nonmetallic Dr	<ul><li>☐ Fiber Drum</li><li>☐ Bag</li><li>☐ Box</li><li>☑ Cylinder</li></ul>	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other.	
STORAGE PRESSURE	a AMBIEN	NT 🔽 b ABOV	E AMBIENT	c BELOW AMBIE	NT			
STORAGE TEMPERAT	TURE a AMBIEN	NT	E AMBIENT	C BELOW AMBIE	VT 🗌 d C	RYOGEN	IC	
OF OTHING TENTERNA			THE SHAPE OF THE SHAPE OF	out and the fact and section in			7.220.00	
%WT	HAZAR	DOUS COMPONENT	(For mixture or wa	aste only)	EHS.		S. C.	AS# 👾 🕬
	HAZARI HEXAFLUOROETHA	<b>高级的产品的 网络蒙蒙马达斯斯 电</b> 电	(For mixture or wa	aste only)	EHS ☐ Yes   ✓	No 76-1		AS#
% WT	17 V + 2 (2 V ) (2 V ) - 1/2 V   1/2 V   1/2 V	<b>高级的产品的 网络蒙蒙马达斯斯 电</b> 电	-(For mixture of wa	aste only)	wint it to the same and the			AS#
% WT 1 99 90%	17 V + 2 (2 V ) (2 V ) - 1/2 V   1/2 V   1/2 V	<b>高级的产品的 网络蒙蒙马达斯斯 电</b> 电	-(Formxture:or.wa	ste only)	☐ Yes 🔽	No		AS#
%:WT 1 99 90% 2	17 V + 2 (2 V ) (2 V ) - 1/2 V   1/2 V   1/2 V	<b>高级的产品的 网络蒙蒙马达斯斯 电</b> 电	-(Formixture:or.wa	ste ónly)	☐ Yes ✔	No No		\S#
% WT 1 99 90% 2 3	17 V + 2 (2 V ) (2 V ) - 1/2 V   1/2 V   1/2 V	<b>高级的产品的 网络蒙蒙马达斯斯 电</b> 电	:(Formxure:or;wa	ste ónly)	☐ Yes ✔ ☐ Yes ✔ ☐ Yes ✔	No No		\S#

## Ur (☐) d Program Consolidated For (☐)

#### HAZARDOUS MATERIALS

								Page 31	of 46
			EL FACILITY II	FORMATION /	Mit die de				
BUSINESS NAME (Same as F	ACILITY NAME or DE	A - Doing Business As)			-				
AIR LIQUIDE CORP	ORATION AMERIC	0							
CHEMICAL LOCATION						CONFIDE	AL LOCATION ENTIAL -	Yes 🕟	No
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				EPCRA			
FACILITY D# 1 9 7 C	0 4 9 6 0	0 0 9 4	AAP# (optional)		GRID# (option:	al) 			
			II: CHEMICAL	NFORMATION					
CHEMICAL NAME TETF	RAFLUOROMETH	ANE				TRADE S	ECRET ubject o EPCR/	Yes 🖪	
COMMON NAME HALO	OCARBON 14					EHS*		Yes S	<b>⊘</b> No
CAS # 75-73	3-0					if EHS is	Yes", all amour	its below m	ust be in
FIRE CODE HAZARD CLASS	ES (Complete if requir	ed by CUPA)				170 m. 12 636-51	2 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>₽</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	☐ LIQUID	<b>✓</b> GAS	LARGEST CONTAI 530	NER				
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure F	Release	te Health	<b>✓</b> Chroni	c Healt		·
AVERAGE DAILY AMOUNT	15800	MAXIMUM DAILY AMOUNT	15800	ANNUAL WASTE AMOUNT	0		STATE WASTE CODE	0	
UNITS* (Check one ilem only)	☐ GALLONS	© CUBIC F	EET P	OUNDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply) [	Aboveground T Underground T Tank Inside Bu Steel Drum	an 🗌 Can	Nonmetallic Dr	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon		Rail Car Other		
STORAGE PRESSURE	<b>⊘</b> a AMBIEN	Γ □ b. ABOVI	E AMBIENT	c BELOW AMBIE	NT			-	
STORAGE TEMPERATURE	a AMBIEN			c BELOW AMBIEI		CRYOGENI			
% WT 1 99 90% TET	HAZARD	OUS COMPONENT	(For mixture or	waste only)	EHS	24122 TABLE	CA	S#, _ ** \	
2	TON EUCHOMETT				Yes Y				
3					Yes 🔽				
4					☐ Yes 🔽	No			
5					☐ Yes 🔽				
f more hazardous components are p			ic, or 0 1% by weight if o	arcinogenic, attach additional s	heets of paper capturing the	ne required info	ormation		
ADDITIONAL LOCALLY COLL	ECTED INFORMATIO	PN							
			•						
						If EPO	CRA, Please Sig	ın Here	
			<del></del>						

#### HAZARDOUS MATERIALS

	Page 32 of 46
A STATE OF THE PARTIES OF THE PARTIE	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC	
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL - Yes A No.
	CONFIDENTIAL - Yes ✓ No EPCRA
FAGILITY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (optional)	E3 (#60)
II. CHEMICAL INFORMATION	
CHEMICAL NAME ETHANE	TRADE SECRET Yes V No If Subject o EPCRA, refer to instructions
COMMON NAME	EHS* Yes No
ETHANE	
CAS # 74-84-0	TEHS is Yes", all amounts below must be in:
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	
FG HAZARDOÙS MATERIAL	CURIES
TYPE (Check one item only)   PURE	No OSTRES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☐ LIQUID ☑ GAS  LARGEST CONTAINER  435	
FED HAZARD CATEGORIES (Check all that apply)  ✓ Fire ☐ Reactive ☐ Pressure Release ☐ Acute Health	☐ Chronic Healt
AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE AMOUNT 850 AMOUNT 0	STATE WASTE CODE
UNITS* ☐ GALLONS ☐ CUBIC FEET ✔ POUNDS ☐ TONS (Check one item only)	DAYS ON SITE 365
Storage Container Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle	Rail Car
(Check all that apply) Underground Tan Can Bag Plastic Bottle	e 🔲 Other.
☐ Tank Inside Buildin ☐ Carboy ☐ Box ☐ Tote Bin	
☐ Steel Drum ☐ Silo ☐ Cylinder ☐ Tank Wagon ☐ Tank W	
STORAGE PRESSURE ☐ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT	
STORAGE TEMPERATURE ☑ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT ☐ d	CRYOGENIC
%WT HAZARDOUS COMPONENT (For mixture or waste only)	CAS#/-E-i/
1 99 90% ETHANE ☐ Yes 🐼	No 74-84-0
2 ☐ Yes 🗹	No
3 ☐ Yes 🗹	No
4 ☐ Yes ☑	No
5 ☐ Yes 🗹	No
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the	he required information
ADDITIONAL LOCALLY COLLECTED INFORMATION	
	If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

L-FACILITY INFORMATION	Page 33 01 40
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERICA	
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL - Yes Y No EPCRA
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional	
II. CHEMICAL INFORMATION	. DZ (#30)
CHEMICAL NAME BROMOTRIFLUOROMETHANE	TRADE SECRET ☐ Yes ☑ No
	If Subject o EPCRA, refer to instruction
COMMON NAME R13B1	EHS⁺ ☐ Yes ☑ No
CAS# 75-63-8	tf EHS is "Yes", all amounts below must be ii lbs
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	
HAZARDOUS MATERIAL  TYPE (Check one item only)  ✓ PURE	₩ No CURIES
PHYSICAL STATE (Check one item only) SOLID □ LIQUID ☑ GAS LARGEST CONTAINER 390	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Fire ☐ Reactive ☑ Pressure Release ☑ Acute Health ☐	✓ Chronic Healt
AVERAGE DAILY AMOUNT  ANNUAL WASTE AMOUNT  1560  ANNUAL WASTE AMOUNT  0	STATE WASTE CODE
UNITS* ☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS (Check one item only)	DAYS ON SITE 365
Storage Container Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle  (Check all that apply) Underground Tan Can Bag Plastic Bottle  Tank Inside Buildin Carboy Box Tote Bin	
☐ Steel Drum ☐ Silo ☑ Cylinder ☐ Tank Wagon	
STORAGE PRESSURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT	
	CRYOGENIC
% WIT HAZARDOUS COMPONENT (For mixture or waste only) EHS	CAS# \$ 1
1 99 90% BROMOTRIFLUORMETHANE ☐ Yes 🔽	No 75-63-8
<sup>2</sup> ☐ Yes ✓	No
3 ☐ Yes 😿	No
4 ☐ Yes 😿	No
5 □ Yes 😿	No
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the	he required information
ADDITIONAL LOCALLY COLLECTED INFORMATION-	
	If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

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## HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

						E-524'85'00'85		Page 34	OI 40 Rights
			I. FACILITY IN	-ORMATION					
BUSINESS NAME (Same as FACIL AIR LIQUIDE CORPORA									
CHEMICAL LOCATION	ATTON AWERICA	1				CHEMICA	L LOCATION		
-						CONFIDE EPCRA		Yes 🕻	<b>∄</b> No
ACIETYID唯 1 9 图 0 4	9 6 0 0	0 9 4 M	AP# (optional)		GRID# (optional	) E3			
			II CHEMICAL IN	IFORMATION					
CHEMICAL NAME ISOBUT	YLENE					TRADE SI	ECRET ubject o EPCR	Yes , A, refer to in	
COMMON NAME ISOBUT	YLENE					EHS*		Yes 🕟	<b></b> No
CAS # 115-11-7	,					*IFEHSJ\$:\$ Ibs	(es", all amour	ts below m	ist be in
FIRE CODE HAZARD CLASSES (C	Complete if required	by CUPA)	· · · · · · · · · · · · · · · · · · ·						<u>andre destroy</u>
HAZARDOÜS MATERIAL TYPE (Check one item only)	<b>₩</b> PURE	MIXTURE	WASTE	RADIOACTIVE	☐ Yes │	<b>√</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAI	NER				
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	✓ Pressure Re	elease	te Health	Chronic	Healt		
AVERAGE DAILY AMOUNT 2		MAXIMUM DAILY AMOUNT	200	ANNUAL WASTE AMOUNT	0		STATE WASTE		
JNITS* Check one item only)	☐ GALLONS	CUBIC FE	ET 📝 PO	UNDS	TONS		DAYS ON SITE	365	
Check all that apply)	Aboveground Tar Underground Tan Fank Inside Build Steel Drum	Can	lonmetallic Dr	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOVE	AMBIENT	c BELOW AMBIER	NT 				
STORAGE TEMPERATURE		☐ b ABOVE		C BELOW AMBIE	NT d. C	RYOGENIC	;		
% WT 1 99.90% ISOBUT	\$14.64×34.74中心。164.75 中华30	US COMPONENT	Formixture on w	aste only)	EHS  Ves	No 115-1	1-7	S#}	
3				<u>.</u>	Yes Yes	-   -		· · · · · ·	
4			-	<u> </u>	Yes V		·		
5	~ <del></del>	<del></del>	- <u> </u>		Yes 🗸		<del></del>	<del>.</del>	
more hazardous components are preser	nt at greater than 1% by	weight if non-carcinogenic	or 0 1% by weight if ca	rcinogenic, attach additional s		1	rmation		-
DDITIONAL LOCALLY COLLECTI	ED INFORMATION								
	_					If EPC	RA, Please Sig	ın Here	

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#### - HAZARDOUS MATERIALS

### HAZARDOUS MATERIALS INVENTORMEMICAL DESCRIPTION

(one page per material per building or area)

								Page 3	5 of 46
			I FACILITY II	NEORMATION :					
BUSINESS NAME (Same as F.	ACILITY NAME or DB	A - Doing Business As)	ne neoven - need billion		A STANFACTOR OF STANFACTOR	. Principal de la		*******	
AIR LIQUIDE CORPO									
CHEMICAL LOCATION							AL LOCATION ENTIAL -	□ Ves	<b>₩</b> No
						EPCRA			W NO
FACILITY ID# 1 9 0	4 9 6 0	0 0 9 4	IAP# (optional)	1	GRID# (optiona	<sup>l)</sup> E3	militar animant Time a Secur		Market Strategy and Strategy
			JI. CHEMICAL	NEORMATION	in a process to the party of				
CHEMICAL NAME ISOB	UTANE					TRADE S	SECRET Subject o EPCR		✓ No instructions
COMMON NAME ISOB	UTANE					EHS*		<b>✓</b> Yes	☐ No
CAS# 75-28	-5					*If EHS is	Yes", all amou	<b>建</b> 石 经 整理	海南方, 运山
FIRE CODE HAZARD CLASSE		ed by CUPA)			_ <del></del>				
FG HAZARDOÜS MATERIAL							CURIES		
TYPE (Check one item only)	<b>₩</b> PURE	MIXTURE	WASTE	RADIOACTIVE		₩ No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>⊘</b> GAS	LARGEST CONTAI 70	NER				
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	✓ Pressure I	Release	te Health [	Chron	ic Healt		
AVERAGE DAILY AMOUNT	210	MAXIMUM DAILY AMOUNT	210	ANNUAL WASTE	0		STATE WAST	E	
UNITS* (Check one item only)	GALLONS	CUBIC F	EET 🔽 F	POUNDS	TONS		DAYS ON SITE	365	
Storage Container	Aboveground T	ank Plastic/	Nonmetallic Dr	Fiber Drum	Glass Bottle	Γ	Rail Car		
(Check all that apply)	Underground Ta			☐ Bag	Plastic Bottle		Other.		ı
[	🗍 Tank Inside Bui	ldın 🗌 Carboy		□ Box	☐ Tote Bin				i
	Steel Drum	Silo		Cylinder	Tank Wagon				ī
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOV	EAMBIENT	c BELOW AMBIE	NT				
STORAGE TEMPERATURE	☑ a AMBIENT	b ABOVE	EAMBIENT	c BELOW AMBIE	NT d (	CRYOGEN	IC		
%WT	######################################	OUS COMPONENT	(For mixture or	waste only)	;		€/	\S# * 7	
1 99 90% ISOE	BUTANE	3.22		- A COMP - A STATE - A STA	Yes 🗌	No 75-2	8-5	14 14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	-52.35.111.00 Decide 11
2					Yes 🗹				
3					☐ Yes 🗹				
4					☐ Yes 🔽	No		-	
5	•				☐ Yes 🗹	No			
If more hazardous components are p	resent at greater than 1%	by weight if non-carcinogeni	c, or 0 1% by weight if	carcinogenic, attach additional s	heets of paper capturing th	e required in	formation		
ADDITIONAL LOCALLY COLLE	CTED INFORMATIO	N							
				=					
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## Un d Program Consolidated For

#### - HAZARDOUS MATERIALS

## HAZARDOUS MATERIALS INVENTOR MEMICAL DESCRIPTION

(one page per material per building or area)

							Page 36 of 4
		等数数据数据	I. FACILITY II	NFORMATION 👍 📳			
BUSINESS NAME (Same as FA	CILITY NAME or DB	A - Doing Business As)	and the second s	The second secon	4.	The best of	<u> rest ti veri e P. Johnson at This are reflective and destination</u>
AIR LIQUIDE CORPO	RATION AMERIC	A	_				
CHEMICAL LOCATION						CONFID	AL LOCATION ENTIAL - ☐ Yes ☑ No
	-	·				EPCRA	
FACILITYID# 1 9 0	4 9 3 6 0	0 0 9 4 M	AP# (optional)	1	GRID# (optiona	ll) E3	
			II. CHEMICAL	INFORMATION :			
CHEMICAL NAME BUTA	NE					TRADE S	SECRET Yes V No Subject o EPCRA, refer to instructi
COMMON NAME BUTA	NF					EHS*	✓ Yes No
CAS#						La Carrent State	Yes", all amounts below must be
106-97		I.L. OUDA)				lbs	
FIRE CODE HAZARD CLASSE FG	S (Complete if require	a by CUPA)			·		
HAZARDOÜS MATERIAL TYPE (Check one item only)	PURE	☐ MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN	NER		
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	<b>✓</b> Pressure	Release	te Health [	Chron	ıc Healt
AVERAGE DAILY AMOUNT	210	MAXIMUM DAILY AMOUNT	210	ANNUAL WASTE AMOUNT	0		STATE WASTE CODE
UNITS* (Check one Item only)	☐ GALLONS	CUBIC F	EET 🕢 F	POUNDS	TONS		DAYS ON SITE 365
Storage Container (Check all that apply)	Aboveground Ta Underground Ta Tank Inside Buil Steel Drum	n 🔲 Can	Nonmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☑ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon		Rail Car Other
STORAGE PRESSURE	a AMBIENT	<b>☑</b> b. ABOVE	AMBIENT	c BELOW AMBIEN	IT		
STORAGE TEMPERATURE	a. AMBIENT	b ABOVE	AMBIENT	c BELOW AMBIEN	IT d. (	CRYOGEN	IC
%WT	HAZARD	OUS COMPONENT	(For mixture or	waste only) —	EHS		
1 99 90% BUTA	NE				Yes 🗌	No 106-	97-8
2					☐ Yes 🔽	No	····
3					☐ Yes 🗹	No	
4					☐ Yes 🔽	No	
5					☐ Yes 🗹	No	
f more hazardous components are pro-	esent at greater than 1%	y weight if non-carcinogeni	c, ar 0 1% by weight if	carcinogenic, attach additional st	neets of paper capturing the	e required in	formation
ADDITIONAL LOCALLY COLLE	CTED INFORMATIO	v.					
						If EP	CRA, Please Sign Here

## Ur ed Program Consolidated For

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#### HAZARDOUS MATERIALS

	Page 37 of 46
L. FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERICA	
CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL - ☐ Yes ✔ No
<del>-</del>	EPCRA
FAGILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional	) <sub>D3</sub>
II. CHEMICAL INFORMATION	
XENON	TRADE SECRET ☐ Yes ✔ No If Subject o EPCRA, refer to instructions
COMMON NAME XENON	EHS* ☐ Yes ☑ No
	"If EHS is "Yes" all amounts below must be in lbs
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	
HAZARDOÙS MATERIAL  TYPE (Check one item only)  ✓ PURE  MIXTURE  WASTE RADIOACTIVE  Yes	✓ No CURIES
PHYSICAL STATE (Check one item only) SOLID □ LIQUID ✓ GAS  LARGEST CONTAINER 230	
FED HAZARD CATEGORIES (Check all that apply) ☐ Fire ☐ Reactive ✔ Pressure Release ☐ Acute Health ☐	Chronic Healt
AVERAGE DAILY AMOUNT  MAXIMUM DAILY AMOUNT  ANNUAL WASTE AMOUNT  O	STATE WASTE CODE
UNITS* ☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS (Check one item only)	DAYS ON SITE 365
Storage Container (Check all that apply)  Aboveground Tank  Plastic/Nonmetallic Dr  Bag  Plastic Bottle  Carboy  Steel Drum  Silo  Fiber Drum  Glass Bottle  Bag  Plastic Bottle  Box  Tote Bin  Tank Wagon	☐ Rail Car ☐ Other:
STORAGE PRESSURE ☐ a AMBIENT ☑ b ABOVE AMBIENT ☐ c BELOW AMBIENT	
STORAGE TEMPERATURE	RYOGENIC
% WT HAZARDOUS COMPONENT (For mixture on waste only). EHS:	CAS#
1	
3	<del></del>
4 ☐ Yes ✓ N	No
5 ☐ Yes ✓ N	
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the ADDITIONAL LOCALLY COLLECTED INFORMATION	e required information
	If EPCRA, Please Sign Here

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								Page 3	38 of 46
	novie against 1880 in the		I. FACILITY IN	ORMATION					
BUSINESS NAME (Same as	FACILITY NAME or DR	A - Doing Business Asi		CONTRACTOR CONTRACTOR			.es.14904119041		25.14.00000000000000000000000000000000000
AIR LIQUIDE CORF		· · ·							
CHEMICAL LOCATION	OTO THOM SHEET OF					CHEMIC	AL LOCATION ENTIAL -	☐ Yes	<b>✓</b> No
						EPCRA			-
FACILITY ID#7 1 9	0 4 9 6 0	0 0 9 4 M		1	GRID# (optional	) D3			
			II. CHEMICAL'IN	IFORMATION					
CHEMICAL NAME KRY	/PTON					TRADE S	SECRET Subject o EPCR		✓ No instructions
COMMON NAME KRY	/PTON					EHS*		Yes	<b>✓</b> No
CAS# 743	9-90-9					*If EHS is	"Yes"; all amou	nts below	must be in
FIRE CODE HAZARD CLASS	SES (Complete if require	d by CUPA)			<del></del> -	3014 15 15 15 15 15 15 15 15 15 15 15 15 15		ent	
HAZARDOÜS MATERIAL TYPE (Check one item only)	<b>₩</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes [	<b>√</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINE 230	R			•	
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure R	elease	Health [	Chron	ıc Healt		
AVERAGE DAILY AMOUNT	4000	MAXIMUM DAILY AMOUNT	4000	ANNUAL WASTE AMOUNT	0		STATE WAST	E	
UNITS* (Check one item only)	☐ GALLONS	<b>₩</b> CUBIC F	EET 🗌 PC	UNDS T	ONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	☐ Aboveground Ta☐ Underground Ta☐ Tank Inside Bui☐ Steel Drum	an 🗌 Can	Nonmetallic Dr	☐ Fiber Drum [ ☐ Bag [ ☐ Box [ ☑ Cylinder [	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT		AMBIENT	c BELOW AMBIENT					
STORAGE TEMPERATURE	a AMBIENT	☐ b ABOVE	AMBIENT	C. BELOW AMBIENT	□ q C	RYOGEN	С		
	HAZARDO	DUS COMPONENT	(For mixture of w	aste only) 🚈 🕌 🦼	· I FEHS:		CA	S##, 2	
1	The same of the sa	to an bedeath and is an invited and it is in such	Sent (D. A. (D. 1944) Production (B. 1944) Comment	eren valge, i velige of the first first fire egyption of the first trade of the first side of the side of the first side	Yes 🔽 1	Vo		B. ANTONOGO	Sec. 24-25-42-7
2	<del></del>		·		Yes 🔽 1				
3		<del></del> -			Yes 🗹				
4					Yes 🗸 1	No			
5					Yes 🗹 1	No			
I more hazardous components are	present at greater than 1%	by weight if non-carcinogeni	c, or 0.1% by weight if ca	rcinogenic, attach additional shee	ets of paper capturing the	required in	formation		
ADDITIONAL LOCALLY COL	LECTED INFORMATIO	N						,	
					-	If EP	CRA, Please Si	gn Here	
							·		_

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### HAZARDOUS MATERIALS

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L'EACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	of the same of the
AIR LIQUIDE CORPORATION AMERICA	
CHEMICAL LOCATION CONFIDENTIAL -	] Yes 🐼 No
EPCRA	- <u> </u>
FACILITY: D## 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional) E7 (#15)	
CHEMICAL INFORMATION  TRADE SECRET	
CALCIUM HYDROXIDE If Subject o EPCRA,	Yes No refer to instructions
COMMON NAME  CARBIDE LIME  EHS*	Yes 🕢 No
CAS # 1305-62-0 TEHS is 'Yes'', all amounts	below must be in
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	**************************************
HAZARDOÚS MATERIAL TYPE (Check one item only)  ✓ PURE	
PHYSICAL STATE (Check one item only) SOLID ✓ LIQUID GAS  LARGEST CONTAINER 9000	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Fire ☐ Reactive ☐ Pressure Release ☐ Acute Health ☑ Chronic Healt	
AVERAGE DAILY AMOUNT  MAXIMUM DAILY 60000  ANNUAL WASTE AMOUNT  O  STATE WASTE AMOUNT  O  CODE	
UNITS* GALLONS ☐ CUBIC FEET ☐ POUNDS ☐ TONS ☐ DAYS ON SITE	365
Storage Container (Check all that apply)  Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle Rail Car  Underground Tan Can Bag Plastic Bottle Other  Tank Inside Buildin Carboy Box Tote Bin  Steel Drum Silo Cylinder Tank Wagon	
STORAGE PRESSURE  a AMBIENT  b ABOVE AMBIENT  c BELOW AMBIENT	
STORAGE TEMPERATURE  a AMBIENT  b ABOVE AMBIENT  c BELOW AMBIENT  d CRYOGENIC	
% WT. HAZARDOUS COMPONENT (For mixture or waste only) # EHS - CAS	
1 99 90% CALCIUM HYDROXIDE	
2 ☐ Yes 🗹 No	
3 ☐ Yes ✔ No	
4 ☐ Yes ✔ No	
5 □ Yes ☑ No	
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information	
ADDITIONAL LOCALLY COLLECTED INFORMATION  .	
If EPCRA, Please Sign	Here

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#### ---- HAZARDOUS MATERIALS

								Page 4	10 of 46
			II. FACILITY IN	FORMATION.					
BUSINESS NAME (Same as F	ACILITY NAME or DBA - Do	ng Business As)	and the same of th	The second secon	A CONTRACTOR OF A STANDING	- 3-2-4-2023	The second of the second second		
AIR LIQUIDE CORP	ORATION AMERICA								
CHEMICAL LOCATION						CONFID	AL LOCATION ENTIAL -		<b>₩</b> No
						EPCRA			
FACILITY ID# 1 9	0 4 9 6 0 0 0	1 2 393	AP# (optional)		GRID# (optiona	<sup>ll)</sup> F3 (	#44)		
CHEMICAL NAME			II CHEMICAL IN	IFORMATION					
OILY	WATER (WASTE)					TRADE S	SECRET Subject o EPCF		✓ No instructions
COMMON NAME OILY	WATER (WASTE)					EHS*		Yes	<b>₩</b> No
CAS#						*If EHS is lbs.	"Yes", all amou	nts below	must be in
FIRE CODE HAZARD CLASS	ES (Complete if required by C	UPA)							ir ieles pares
HAZARDOUS MATERIAL TYPE (Check one Item only)	Dure	MIXTURE	<b>₩</b> WASTE	RADIOACTIVE	☐ Yes	<b>☑</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID 🔽	LIQUID	GAS	LARGEST CONTA 55	INER				
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure R	elease 🗌 Ac	ute Health [	<b>☑</b> Chron	ıc Healt		
AVERAGE DAILY AMOUNT	MAX AMC	IMUM DAILY UNT		ANNUAL WASTE AMOUNT	700		STATE WAST CODE	E 221	
UNITS* (Check one item only)	<b>☑</b> GALLONS	CUBIC FE	ET PC	OUNDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	☐ Aboveground Tank☐ Underground Tan☐ Tank Inside Buildin☐ Steel Drum	☐ Plastic/N☐ Can☐ Carboy☐ Silo	ionmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin ☐ Tank Wagon		Rail Car Other		
STORAGE PRESSURE	a AMBIENT	☐ b ABOVE	AMBIENT	C BELOW AMBIE	NT				
STORAGE TEMPERATURE	a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIE	NT d. (	CRYOGEN	IC		
T%WTE	HĄZARDOUS	COMPONENT	(For mixture or w	aste only)	TA SEHS A		# 4 # C#	\\$#`\= <u>.</u>	
2					☐ Yes ✔				
3					Yes 🔽				·
4	*****				☐ Yes 🐼	<del></del>	,		
5					☐ Yes 🗹				
If more hazardous components are		ht if non-carcinogenic	or 0 1% by weight if ca	rcinogenic, attach additional	sheets of paper capturing th	e required in	formation		
ADDITIONAL LOCALLY COLL	ECTED INFORMATION								
						If EP	CRA, Please Si	ign Here	

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#### **HAZARDOUS MATERIALS**

								Page 4	11 of 46
			I FACILITY IN	FORMATION:					
BUSINESS NAME (Same as	FACILITY NAME or DBA	\ - Doing Business As)	Parish Shares and Principles	Appropriate the second of the second	STATE OF THE STATE	A COLUMN TO SERVICE AND ADDRESS OF THE PARTY			
· ·	PORATION AMERIC								
CHEMICAL LOCATION		-				CHEMIC CONFID EPCRA	AL LOCATION ENTIAL -	Yes	<b>✓</b> No
FACILITYID# 1 9	014 0 18 6 0	0 0 9 4	MAP# (optional)		GRID# (optiona			<del></del>	
FACILITYID# 1 9	0 4 9 6 0	0   0   9   4   기	II. CHEMICAL IN	1 JEODMATION <sup>®</sup>	ONID# (Options	<sup>II)</sup> F3 (	#44)	GP 6-2-48	2281) Y 1676
CUENICA NAVE			ALCOHOLOGICAL INC.						
	UTRALIZED CAUST	IC SOLUTION (WA	STE)			TRADE S	Subject o EPCR		instructions
COMMON NAME NE	UTRALIZED CAUST	IC SOLUTION (WA	STE)			EHS*		Yes	
CAS#						*II EHS is lbs:	Yes", all amou	ntsibelow	must be in
FIRE CODE HAZARD CLAS	SES (Complete if require	d by CUPA)							
HAZARDOÜS MATERIAL TYPE (Check one item only)	PURE	MIXTURE	<b>₩</b> WASTE	RADIOACTIVE	Yes	₩ No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	✓ LIQUID	GAS	LARGEST CONTAINE 55	R	-			
FED HAZARD CATEGORIE (Check all that apply)	S Fire	✓ Reactive	Pressure R	elease 🔽 Acute	Health [	Chron	ıc Healt		
AVERAGE DAILY AMOUNT		MAXIMUM DAILY AMOUNT		ANNUAL WASTE AMOUNT	200	<del></del>	STATE WASTI CODE	122	
UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC F	EET PO	DUNDS T	ONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	☐ Aboveground Ta☐ Underground Ta☐ Tank Inside Buil  ✓ Steel Drum	ın 🗌 Can	/Nonmetallic Dr	Fiber Drum	_ Glass Bottle _ Plastic Bottle _ Tote Bin _ Tank Wagon		Rail Car Other		!
STORAGE PRESSURE	<b>∠</b> a AMBIENT	☐ b ABOV	E AMBIENT	c BELOW AMBIENT					
STORAGE TEMPERATUR	<b>3</b> -		E AMBIENT	c BELOW AMBIENT		CRYOGEN	С		
1   WT	HAZARDO	OUS COMPONEN	(For mixture or w	/aste only)	·   - EHS\$ . ☐ Yes 🗹	No No	÷∵∤ GA	S# /	
2					☐ Yes 🔽				
3					☐ Yes 🗹	No	-		
4					☐ Yes 🗹				
5	<u> </u>				☐ Yes 🗹				
If more hazardous components ar			iic, or 0 1% by weight if ca	arcinogenic, attach additional shee	ts of paper capturing the	ne required in	formation		
ADDITIONAL LOCALLY CO	LLECTED INFORMATIO	<b>,</b>							
	_					If EP	CRA, Please Siç	gn Here	

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#### " - HAZARDOUS MATERIALS

# HAZARDOUS MATERIALS INVENTOR HEMICAL DESCRIPTION (one page per material per building or area)

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			I. FACILITYII	NFORMATION				age 42 01 40
BUSINESS NAME (Same as FACI	ILITY NAME or DBA -	Doing Business As)	or water of the	Property of the Property of th		sametriciti	<u> </u>	
AIR LIQUIDE CORPOR	ATION AMERICA							_
CHEMICAL LOCATION				_	~	CHEMICA CONFIDE EPCRA	AL LOCATION  NTIAL -	Yes 🗹 No
FACIETY ID# 1 9 0 4	192600	0 9 4 N		1	GRID# (optional	) F3 (#	<del>(</del> 44)	
			II. CHEMICAL	INFORMATION				
CHEMICAL NAME WATER	BASED PAINT (V	VASTE)				TRADE S	ECRET Ubject o EPCRA, r	Yes 🗹 No efer to instructions
COMMON NAME WATER	BASED PAINT (V	VASTE)				EHS*		Yes 🔽 No
CAS#						II,EHS is.	Yes", all amounts.	pelow must be in a
FIRE CODE HAZARD CLASSES (	Complete if required t	y CUPA)						
HAZARDOÙS MATERIAL TYPE (Check one item only)	☐ PURE	MIXTURE	<b>✓</b> WASTE	RADIOACTIVE	☐ Yes [	<b>✓</b> No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	<b>☑</b> LIQUID	GAS	LARGEST CONTAIN 55	ER			
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure	Release	e Health	Chroni	c Healt	
AVERAGE DAILY AMOUNT		IAXIMUM DAILY MOUNT		ANNUAL WASTE AMOUNT	600		CODE	35
UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC F	EET F	POUNDS	TONS		DAYS ON SITE	65
(Check all that apply)	Aboveground Tan Underground Tan Tank Inside Buildi Steel Drum	Can	Nonmetallic Dr	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other	
STORAGE PRESSURE	a AMBIENT	☐ b ABOVE	E AMBIENT	c BELOW AMBIEN	Т			
STORAGE TEMPERATURE	<b>☑</b> a AMBIENT		E AMBIENT	c. BELOW AMBIEN		RYOGENI		
%WT ****	HAZARDOL	IS COMPONENT	(For mixture or	waste only)	EHS		ÇAS#	
2					Yes Y			
3			····		Yes V			
4				<del> </del>	☐ Yes 🗸 i			
5					Yes 🔽 I			
If more hazardous components are prese	ent at greater than 1% by	weight if non-carcinogen	ic, or 0 1% by weight if	carcinogenic, attach additional sh	eets of paper capturing the	required inf	ormation	
ADDITIONAL LOCALLY COLLECT	FED INFORMATION					игра		
						11 EPC	CRA, Please Sign I	nere

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#### **HAZARDOUS MATERIALS**

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-D-FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERICA	
CHEMICAL LOCATION	CHEMICAL LOCATION
	CONFIDENTIAL - Yes V No
	EPCRA .
FAGULTY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1 GRID# (optional)	<sup>al)</sup> F3 (#44)
CHEMICALINFORMATION	
CHEMICAL NAME	TRADE SECRET Yes 🗹 No
NEUTRALIZED CAUSTIC SOLUTION (WASTE)	If Subject o EPCRA, refer to instructions
COMMON NAME WASTE CAUSTIC SOLUTION	EHS* ☐ Yes ₩ No
	[[EHS is 'Yes", all amounts below must be in
CAS#	bs 10 to 10
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	New York Control of the Control of t
The Good in Early of the Good (Configuration of Configuration of Configura	
HAZARDOÜS MATERIAL PURE MIXTURE ₩ WASTE RADIOACTIVE Yes	CURIES
TYPE (Check one item only)  PURE  MIXTURE  WASTE  RADIOACTIVE  Yes	No OOMES
PHYSICAL STATE  (Check one item colu)  SOLID  V LIQUID  GAS  LARGEST CONTAINER	
(Crieck one item unity)	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Fire ☐ Reactive ☐ Pressure Release ☑ Acute Health	Chronic Healt
(Oriects as user apply)	CTATE MACTE
AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE  AMOUNT 55 AMOUNT 55 AMOUNT 200	STATE WASTE CODE 122
UNITS*	DAYS ON
(Check one item only)	SITE 365
Storage Container Aboveground Tank Plastic/Nonmetallic Dr Fiber Drum Glass Bottle	Rail Car
(Check all that apply) Underground Tan Can Bag Plastic Bottle	e Other
☐ Tank Inside Buildin ☐ Carboy ☐ Box ☐ Tote Bin	
✓ Steel Drum Silo Cylinder Tank Wagon	
STORAGE PRESSURE  a AMBIENT  c BELOW AMBIENT	
	000000000000000000000000000000000000000
STORAGE TEMPERATURE	CRYOGENIC
%WT::: HAZARDOUS COMPONENT (For mixture or waste only): LEHS	ン語 これ CAS# はこれ
1 ☐ Yes ✔	No
[ 100 P	No
yes <b>√</b>	No
4 ☐ Yes ✓	No
_ iss w	
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing to	the required information
ADDITIONAL LOCALLY COLLECTED INFORMATION:	
	If EPCRA, Please Sign Here

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#### HAZARDOUS MATERIALS

								Page 4	44 of 46
			I, FACILITY IN	FORMATION	11.41.40.12.40.11.	75.1			
BUSINESS NAME (Same as	S FACILITY NAME or DE	BA - Doing Business As)			entratoren eta esta esta esta esta esta esta esta	III.		AND STATE	
1	PORATION AMERIC	,							
CHEMICAL LOCATION						CHEMIC	AL LOCATION		
						EPCRA		Yes	<u>₩</u> 190
FAGILITY ID# 1 9	0 4 9 6 0	0 0 9 4	MAP# (optional)	1	GRID# (optiona	<sup>i)</sup> F3 (	#44)		
			II. CHEMICAL I	NFORMATION		1467	A. T. C. Lange Editor		
CHEMICAL NAME OIL	Y WATER (WASTE	;)				TRADE S	SECRET Subject o EPCR		₩ No instructions
COMMON NAME WA	ASTE OILY WATER					EHS*		Yes	<b>₩</b> No
CAS#						*If EHS is	"Yes", all amou	nts below	must be in
FIRE CODE HAZARD CLAS	SSES (Complete if requir	ed by CUPA)				1. Ten personal 20.		<u> </u>	T. 11. 12. 12. 12. 12. 12. 12. 12. 12. 12
HAZARDOUS MATERIAL TYPE (Check one item only)	☐ PURE	MIXTURE	<b>₩</b> WASTE	RADIOACTIVE	☐ Yes	✓ No	CURIES		
PHYSICAL STATE (Check one Item only)	SOLID	✓ LIQUID	[] GAS	LARGEST CONTAINE	R				
FED HAZARD CATEGORIE (Check all that apply)	S Fire	Reactive	Pressure R	Release	Health [	✓ Chron	ic Healt		
AVERAGE DAILY AMOUNT	55	MAXIMUM DAILY AMOUNT	55	ANNUAL WASTE AMOUNT	700		STATE WAST	E 221	
UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC	FEET P	OUNDS T	ONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	Aboveground T	an 🗌 Can	/Nonmetallic Dr	Fiber Drum Bag	Glass Bottle Plastic Bottle		Rail Car Other		
	☐ Tank Inside Bu  ✓ Steel Drum	ildın ∐ Carboy ∏ Silo	<i>(</i>	☐ Box ☐ Cylinder	_ Tote Bin ☐ Tank Wagon				
STORAGE PRESSURE	a AMBIEN	T 🗌 b ABOV	E AMBIENT	c BELOW AMBIENT					
STORAGE TEMPERATUR			E AMBIENT	C BELOW AMBIENT	☐ d (	CRYOGEN	С		
%WT :: :: :: :: :: :: :: :: :: :: :: :: ::	HAZARD	OUS COMPONEN	T (For mixture or a	vaste only)	EHS ☐ Yes 🗸	No.	C/	.S# ], <sub>3,3</sub> ,	40000000000000000000000000000000000000
2					Yes 🔽				
3					☐ Yes 🗸		<del></del> _		
4	<del></del>	<del></del>			☐ Yes 🗹	No			
5					☐ Yes 🔽	No			
If more hazardous components a	re present at greater than 1%	by weight if non-carcinogei	nic, or 0.1% by weight if c	arcinogenic, attach additional shee	ts of paper capturing th	e required in	formation		7
ADDITIONAL LOCALLY CO	LLECTED INFORMATIO	DN							
						If EP	CRA, Please Si	gn Here	

## Ur ⊇d Program Consolidated For

#### HAZARDOUS MATERIALS

ua-Program una

		Page 45 of 46
L.FACILITY/INFO	RMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	eraniera en	THE PARTY OF THE PROPERTY OF THE PARTY OF TH
AIR LIQUIDE CORPORATION AMERICA		
CHEMICAL LOCATION		CHEMICAL LOCATION  CONFIDENTIAL - Yes Y No
		EPCRA
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) 1	GRID# (optional)	F3 (#44)
II. CHEMICAL INFO	DRMATION	
CHEMICAL NAME SPENT "MONKEY" DUST (WASTE)		TRADE SECRET Yes V No If Subject o EPCRA, refer to instructions
COMMON NAME WASTE SPENT "MONKEY" DUST		EHS⁺
CAS#		If EHS is "Yes"; all amounts below must be in os
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	]	
HAZARDOUS MATERIAL  TYPE (Check one stem only)  PURE MIXTURE WASTE	RADIOACTIVE Yes	CURIES No
TYPE (Check one item only)  PURE MIXTURE  W WASTE		
(Check one item only)  SOLID LIQUID GAS	LARGEST CONTAINER	
FED HAZARD CATEGORIES	ase 🗹 Acute Health	Chronic Healt
AVERAGE DAILY MAXIMUM DAILY 550 AMOUNT 550	ANNUAL WASTE AMOUNT 1500	STATE WASTE CODE 181
UNITS* ☐ GALLONS ☐ CUBIC FEET ☑ POUN (Check one item only)	DS TONS	DAYS ON SITE 365
Storage Container Aboveground Tank Plastic/Nonmetallic Dr (Check all that apply)	Fiber Drum Glass Bottle	Rail Car
Onderground ran Can	Bag Plastic Bottle	Other
☐ Tank Inside Buildın ☐ Carboy	Box Tote Bin	
✓ Steel Drum Silo	Cylinder Tank Wagon	,
STORAGE PRESSURE	c BELOW AMBIENT	
STORAGE TEMPERATURE	c BELOW AMBIENT d CF	YOGENIC
%.WT HAZARDOUS COMPONENT (For mixture or wast	e only) (EHS )	CAS#
	Yes 🔽 N	0
2	☐ Yes 📝 N	0
3	☐ Yes 📝 N	0
4	☐ Yes 🗸 N	0
5	☐ Yes 🗸 N	,
f more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcino ADDITIONAL LOCALLY COLLECTED INFORMATION	ogenic, attach additional sheets of paper capturing the	required information
ADDITIONAL FOCKEL GOFFECTED INLOVINATION		
		If EPCRA, Please Sign Here

### \_\_\_\_d Program Consolidated For \_\_\_\_

#### HAZARDOUS MATERIALS

						F	Page 4	l6 of 46
		LEACILITY INFOR	MATION LE LE IN			anna Vara Pari		
BUSINESS NAME (Same as	ACILITY NAME or DBA - Doing Business As)	SAMPLE STATE OF STATE		ter the latest to	Los Marie Na Radio	the surgest the Section Sectio		
AIR LIQUIDE CORF								
CHEMICAL LOCATION	, in the state of	<del></del>			CHEMICA	AL LOCATION		
İ					CONFIDE	NTIAL -	] Yes	<b>✓</b> No
			- · · · · · · · · · · · · · · · · · · ·		EPCRA			
FACILITY ID# 1 9	4 9  6 0 0 0 9 4  MA	P# (optional) 1		GRID# (optional	) F3 (#	<del>(</del> 44)		
WALES OF STREET		I. CHEMICAL INFO	RMATION				Ţ.	4 700
CHEMICAL NAME	Action (1869) the house of the moximal state of the state	A. A. S. C. S.	324.7443.4.081.7.001	X	TRADE S	FCRET	Yes	<b>√</b> No
WA <sup>-</sup>	ER BASED PAINT (WASTE)					ubject o EPCRA,	refer to	instruction
COMMON NAME					EHS*		Yes	<b>₩</b> No
WAS	TE WATER BASED PAINT							
CAS#						Yes", all amounts	below i	nust be in
		· · · · · · · · · · · · · · · · · · ·			bs:			
FIRE CODE HAZARD CLASS	S (Complete if required by CUPA)							
			r					
HAZARDOÜS MATERIAL TYPE (Check one item only)	☐ PURE ☐ MIXTURE	<b>₩</b> WASTE	RADIOACTIVE	Yes	<b>√</b> No	CURIES		
PHYSICAL STATE			LARGEST CONTAINER					
(Check one item only)	SOLID 🗹 LIQUID	GAS	55					
FED HAZARD CATEGORIES								
(Check all that apply)	Fire Reactive	Pressure Release	se 🗌 Acute Hea	alth 🕟	Chroni	c Healt		
AVERAGE DAILY	MAXIMUM DAILY		ANNUAL WASTE			STATE WASTE		
AMOUNT	55 AMOUNT	55	AMOUNT	600		CODE	135	
UNITS* (Check one item only)	☑ GALLONS ☐ CUBIC FEI	ET POUND	s 🗍 Tons	;		DAYS ON SITE	365	
Storage Container	Aboveground Tank Plastic/N	onmetallic Dr	Fiber Drum (	Glass Bottle		Rail Car		
(Check all that apply)	Underground Tan Can		☐ Bag ☐ F	Plastic Bottle		Other.		
	Tank Inside Buildin Carboy	[	Box 1	Tote Bin				
	Steel Drum Silo		Cylinder	ank Wagon				
STORAGE PRESSURE		AMBIENT	c BELOW AMBIENT		·			
STORAGE TEMPERATURE	a AMBIENT □ b ABOVE	AMBIENT	c BELOW AMBIENT	d. C	RYOGENI			
%	HAZARDOUS COMPONENT (	For mixture or waste	only)	EHS		CAS	<b>.</b>	
1	「「「「「」」となっていた。 では、これでは、これでは、これでは、「は、「は、「は、「は、「ない」という。 では、これでは、「これでは、「これでは、」。	<u> </u>					30.05 30.05	
				Yes <b> </b>	10			
2				Yes 🗹 1	10			
3				Yes 🛂 1	lo l			
4								
				Yes 🗹 l	NO	· · · · · · · · · · · · · · · · · · ·		
5			ļ 1	Yes 🗹 N	lo			
f more hazardous components are	resent at greater than 1% by weight if non-carcinogenic,	or 0 1% by weight if carcinog	enic, attach additional sheets of	paper capturing the	required info	ormation		
ADDITIONAL LOCALLY COL	CTED INFORMATION							
		•						
					H EDG	'DA Diogra Cora	Lloro	
					II EPC	RA, Please Sign	nere	

**DICE 01058** 

Do all sinks or drains flow to the industrial wastewater system?

e					
las the facility been inspected by a regulatory agency?	<del></del>	· <del>···</del>	<del></del>	7	
lisc				<del> </del>	
JIC permit to operate?					
ermit conditions met?					
omments: and Only refain labrates annel reports x 5 years	٦				
recomment of a formation of the formatio					
Comments:  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years  [lecommed: Only retain Labrepatz annul reports x 5 years					
Stormwater 40 CFR Part 122 LASTATOSW Pemito	Y/N	N/A	Complles	Does not comply	Not reviewed
Does the location have an SIC code of <del>2813</del> Manufacturing? 51/29-	1/1	, ,	1	T	1
yes, does the location have an industrial stormwater permit or exemption from the state?	(E)		X		
oes the location have a SWPPP?	ТŸ				
as the plan been reviewed/revised in the past 12 months?	N				
lave all the employees had SW training in the past 12 months?					
Does the location have documentation for visual & analytical monitoring required by permit?			X		
Are monitoring records kept for 5 years?					
Are there any areas where poor housekeeping practices could contaminate stormwater?		<u></u>	ļ		
las the facility been ispected by a regulatory agency?		<u> </u>	<u> </u>	<u>.l</u>	<u> </u>
Comments: Annul SW report regret  Due July 1-Annually  2003 2/11/03 5C 0+6, PI+ 7 SS+TOC  11/3/03 Ph TSS SC COG TOC docenent 1st stomewat  OLD NOYZOOI- no report flee Quatholis completed 1/24/03  2/13/04	y Mar	MA 03	s <i>capl</i> l LAB	eted ! WE	Lind Cle CK La
1/2/12 Oh TSC SC 186 TOC Obtenent 1 Sion Class	Dec	<i>Q3</i>			
11/3/03 P (2) 2 0 0 11/1 CONSCIENT 9/74/03	Jan	104			
OLD NOYZOOI- NO report files Chartonia Company 11/24/03	Rb	04,			
2113/04	Mar	04			
SARA Title 3 EPCRA 40 CFR Part 370 Tier II CUPA Permit explud 34/04	Y/N	N/A	Complies		
Does facility submit annual report to State, LEPC & Fire department? (Generally thresholds are 10,000lbs		11//	Compiles	Comply	10.10110
hazardous chemical or 500lbs of EHS)		1	1		
nazardodo chemical de 300l05 de EIIS)	<del></del>	<del>                                     </del>	<del> </del>	+	+
(Marketeles decided M. 1.44. O					
(Most states due date March 1st, Oregon September, California HMBP replaces Tier II, due misc times)		<del> </del>	<del> </del>		<del> </del>
Reports sent to SERC, LEPC & Fire department?		<del> </del>	<del> </del>	<del></del>	<del> </del>
Are reports maintained on site for 3 years?					

Comments: maximurgoco/bs Propyland

HMBP-

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SARA Title 3 EPCRA 40 CFR Part 355	Y/N	N/A_	Complies	Does not comply	Not reviewed
Does the facility know to immediately report releases of any hazardous substance or oil above reportable					
quantities to National Response Center, State Emergency Response Commission and LEPC?					
Immediately report ammonia releases above 100lbs/day to NRC, SERC & LEPC?					
Comments:					
	-				
i	l l				
	Ì				
	1				
	_]				
	<del></del>				
		ı		Does not	Not
SARA Title 3 EPCRA 40 CFR Part 372 TRI	Y/N	N/A	Complies	comply	reviewed
Does facility complete Form R or Form A before July 1 annually for chemicals on Toxic list -		ı			l
manufacture/process over 25,000lbs? Report ODS refrigerant losses over 10,000/year?			·		
Propylene/Ethylene Oxide process over 25,000lbs?				<del> </del>	
Report ammonia losses exceed 10,000lbs/year?					
	<b></b>				
Comments:	İ				
	1				
	1				
L					
					·
la.	I	1		Does not	t Not
Hood Oil Demilations 40 OFD west 979	1///	1	Campli-+		
Used Oil Regulations 40 CFR part 279  Is all used oil recycled?	Y/N	N/A	Complies		reviewed

RSUSK Ser audit into in regulari flacus cert of ragely = each mayest to D.K

		<del></del>	<del></del>		<del></del>
Hannadaya Wasta Camaratay ay Calid Wasta ya walaya ay ta 40 OFD D 4 004 000	1			Does not	Not
Hazardous Waste Generator or Solid Waste requirements 40 CFR Part 261- 262	Y/N	N/A	Complies	comply	reviewed
Does the facility generate hazardous waste?					
a. Shot blast?					
b. Liquid paint?			<u> </u>		
c. Aerosol spray paint cans - unpunctured?					
d. Scrubber solution?			ļ		
e. Solvents?			<u> </u>		
d. Filters?			ļ	<u> </u>	
f. Other?					
Labeling:					
Is each container of waste labeled with the workds "Hazardous Waste" or the contents?					
Are non-hazardous waste labeled with the contents?			<u> </u>		
Are labels easily noticed - facing outward and is writing legible?					
Is aerosol spray paint can waste collection container labeled with hazardous waste label?					
Storage:					
Are waste containers in good condition? (no dents, rust, leaks)					
Is waste being place in containers compatible with the waste being stored in containers?					
Are satellite and 90-day storage areas equipped with emergency equipment?					
Is there at least 36" between rows of drums?					
Are waste containers closed except when adding or removing waste?				1	
Are incompatible chemicals and wastes separated by means of a dike, berm, wall or distance?					
Do chemical and waste containers have spill containment that is 1.5 X the largest container?					
Lime storage in permitted pond or in tanks, preventing release to environment?					
Does the facility use an aerosol spray paint can puncture system?					
Are correct enroy point cope collected in recleanble container for hexardeus weeks disposed by cutaids			1	<del></del>	<del>                                     </del>
Are aerosol spray paint cans collected in reclosable container for hazardous waste disposal by outside vendor?					
Is there adequate hazmat spill control equipment/supplies in the waste/chemical storage area?	_				
Do all containers in 180-day (SQG's) and 90-day (LQG's) storage areas have dates showing when the				T	
container arrived in the area?					
Are weekly inspections of storage areas including secondary containment completed & documented?	-	1			
Disposal/Recycle:	_	1	1		

If shot blast classified as non-hazardous waste, does the facility have permission to dispose of in general	<del></del>	<del></del>	
trash or send to offsite vendor?	j		
Lime recycle/reuse at approved vendor with formal agreement?		<del> </del>	
Scrap acetylene cylinders sent for recycling?			
Scrap high pressure cylinders sent for recycling?			
"Unknowns" on property sent for disposal/recycle with approved vendor?			
Radiator servicing - Used ethylene glycol, propylene glycol or other similar heat exchange fluids, recycled by			
reputable recycler or disposed of through approved disposal company?	ĺ		
Are paint filters completely dry before disposal in general trash?			
Are bulk paint containers with excess liquid paint disposed of as hazardous or (universal wasteTX only)?		<u>                                     </u>	
Is the water used to clean brushes or other materials collected and disposed of by hazard category?			
Documentation/training:			
Have all employees who sign manifests attended the following training: annual RCRA awareness & DOT			
Hazardous Material every 3 years?			
Waste documention maintained for 3 years & 3 years only?			
Profile or waste determination for each waste every 3 years?			
Is waste management company approved & have contract/hold harmless with Air Liquide?			
Exception reports filed with EPA region if the generator does not receive back signed manifest from the	1		
offsite TSD facility within 60 days?			
Is an annual hazardous waste report filed with state agency as applicable?			
BMP:	l	<del></del>	
Current file of applicable national, state & local regulations?			
			į į
Participate in local recycling programs and to reduce the volume of solid waste material when practical?		<del> </del>	
Identify & document all their nonhazardous waste streams and repeat precess when new streams are		1	1
Introduced?	<del>  </del>	<del>-  </del>	
Policies and procedures developed for the proper handling of solid non-hazardous waste?		-	
mixed?	ļ	<del></del>	
Description of the Burling of the control of the co			
Personnel periodically informed about materials that are prohibited from disposal in solid waste recepticles?	<del>  </del>	<del></del>	
Waste Management Plan up to date?	lL		
Comments:	1		
Generator status	1		
Contractor status	<b>!</b>		

				Does not	Not
SPCC 40 CFR Part 112	Y/N	N/A	Complies	comply	reviewed
SPCC plan if oil storage capacity is over 1320 gallons total (only containers equal to or greater than 55					,
gallons)?			<u> </u>		

Is adequate containment provided and containment system in good condition?					
is adoquate contaminant prograde and contaminant dyotom in good container:					{
After Feb 2005 - Is there adequate containment for loading/unloading areas?					
SPCC plan maintained & followed?					
Reviewes & revised every 5 years?					
Signed by P.E?					
Water accumulated in containment areas managed to prevent discharge of oil into environment?					
Inspection records maintained?					
Spill report for each incident where an oil spill has entered navigable water?					
Annual training documented?					
Integrity testing performed?					
Comments:	1				
Communica.	]				
	1				
	l			1	
	[				
i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	1				
	-				
Universal Waste 40 CFR Part 273	Y/N	N/A	Complies	Does not comply	Not reviewed
Recycle/dispose of universal waste (fluorescent bulbs & batteries) through reputable company?	1719	13/7	Complies	Compay	Teviewed
recycle/dispose of universal waste (huorescent builds & datteries) through redutable company?	1 1				
Label universal wests with contact 2 data of concertion?	<del> </del>		<del> </del>	<del> </del>	
Label universal waste with content &date of generation?					<del></del>
Label universal waste with content &date of generation? Universal waste recycled/disposed of within 12 months of generation?					
Label universal waste with content &date of generation?					
Label universal waste with content &date of generation? Universal waste recycled/disposed of within 12 months of generation? Annual training documented?	1				
Label universal waste with content &date of generation? Universal waste recycled/disposed of within 12 months of generation? Annual training documented?	1				
Label universal waste with content &date of generation? Universal waste recycled/disposed of within 12 months of generation? Annual training documented?	]				
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Label universal waste with content &date of generation? Universal waste recycled/disposed of within 12 months of generation? Annual training documented?					
Label universal waste with content &date of generation?  Universal waste recycled/disposed of within 12 months of generation?  Annual training documented?  Comments:  - Aug USUS Green to bulbs purplanting.		NVA	Comples	Does not	Not
Label universal waste with content &date of generation?  Universal waste recycled/disposed of within 12 months of generation?  Annual training documented?  Comments:  — August also green to bulls purplating.  Ozone Depleting Substances 40 CFR Part 82	Y/N	N/A	Complies		
Universal waste with content &date of generation?  Universal waste recycled/disposed of within 12 months of generation?  Annual training documented?  Comments:  Ozone Depleting Substances 40 CFR Part 82  ODS systems serviced, maintained & repaired by EPA certified technician?	Y/N	N/A	Complies		Not reviewed
Label universal waste with content &date of generation?  Universal waste recycled/disposed of within 12 months of generation?  Annual training documented?  Comments:  — Aug also green to bulbs purplating.  Ozone Depleting Substances 40 CFR Part 82	Y/N	N/A	Complies		

Certified recovery/recycling equipment used to remove refrigerant when necessary? (No venting to atm)

**DICE 01064** 

Comments:

Are CDL's current and copies on file?

Are CDL's current and copies on file?

	·		·		
				Does not	Not
MISC .	Y/N	N/A	Complies	comply	reviewed
Environmental files organized & readily available?				1	
Quality Top 5	Y/N	N/A	Complies	Does not comply	Not reviewed
Are they following the document control policy?(Document number, revision number, and effective date must	****		1	Junior	10.00.00
match the latest version of the Pilgrim document)					1
a) Check fill charts					
b) Any procedure they're using					
c) Cylinder fill manual					
Is the lastest version of the Cylinder fill plant manual available? (Do they have one & is it the latest	1				
version09/01?)	Y				
Are they maintaining their training recored? (Ensure employees have been trained to the cyl fill plant manual	<i>   </i>				
vers.9/01 - pick 2,3 or 4 employees and ask them. Ask to see the training log and validate those employees	ļ ļ			'	
are listed there)					
Do they have an area to					
a) segregate any nonconforming product (bad valve, leaking vgl etc.)					
b) segregated area for fulls			ļ		
c) segretated area for empties			<del> </del>		
Do they know how to retrieve a procedure from Pilgrim? (Ask plant manager to			<del> </del>		
a) demonstrate how he/she retrieves the doc control procedure in Pilgrim			<del> </del>		
b) explain how he/she knows they are using the latest doc? c) explain how he/she updates manual when you receive a new version of a procedure from corporate?	<del> </del>		ļ	<u> </u>	
c) explain flow he/she updates manual when you receive a new version of a procedure from corporate?	<u> </u>		J	L	
Comments:	1				
Confinients.					
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terrent control of the control of th	-				
DOT Top 10					
	1			_	
And Divine Constitution Polaries of the constitution of	V/NI	NI/A	Complies	Does not	Not reviewed
Are Driver Qualification Files maintained for each driver?	Y/N	N/A	Complies	comply	16Alewed
[These files must be separated from personnel files and a separate file for each driver. If not, call Scott ]  Are drivers DOT physicals current and on file?	<del> </del>	<del> </del>		<del> </del>	
[DOT physicals are renewed even; 2 years. Verify that this is in the qualification file and that it is current ]	<del> </del>		<del>  \</del>	1	

, e,	Y	NA	Conalle		
[Verify copy is in qualification file and that it's current]		T	Leng 1	, ,	
Are Drivers Daily Logs reviewed, recapped, and retained for at least 6 months?			X		<del></del>
(NOV)					
[This is for bulk drivers. Verify that a summary of these logs is maintained and retained for at least 6 months]		ļ	i		
Are random drug and alcohol testing being conducted? Documented?					
[Vendor Choice Point conducts these tests. Verify that documentation exists and that it is maintained]					
Are individual maintenance files kept for trucks / trailers?		j — —			
[There should be a separate maintenance file for each truck and trailer which includes, registration information,		ļ —	1		
technical data, work orders, repair history, preventive maintenance: dates, description of work, signature of who did					
Are Daily Vehicle Inspection Reports retained for at least 90 days?			X		
[Pre and post trip inspections' forms must be complete (all fields including signature) & must be reviewed and signed					
by the mechanic ]	ľ	ļ		ļ	
Are there fire extinguishers on each truck? Are they inspected?			X		
	,		7		
[Verify that the label on fire extinguisher is current. Verify that the extinguisher is secured and readily accessible.]	İ				
Is proper documentation maintained in each cab (insurance cards and registration)?			X		
{Typically drivers will have a pouch with all this information. Flip through and verify that all docs are current ALSO			7		
verify they have a camera in the truck (for accident reporting purposes).]	L	1	\ '		
Comments:	1				
	1				
	ļ				
	Į				
	\ \/\.	<b></b>	0	Does not	Not
Safety Top 10	Y/N	N/A	Complies	comply	reviewed
Are all visitors/contractors required to sign in and out on the facility logbook?	<del> </del>	<del> </del>	X	<del> </del>	
[Walk in and begin conducting business without signing in (unless asked to of course) to verify that someone does ask	1				
you to sign in]	1000	4	-		
Does the facility have a safety team in place? Who is the safety champion?  [Safety or driver champion is fine What are they doing to 'push' safety i.e. meatings committee champion's cross.]	2501	<del></del>	<b>X</b>		

[Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	Safety Top 10	Y/N	N/A	Complies	comply	reviewed
you to sign in]  Does the facility have a safety team in place? Who is the safety champion?  [Safety or driver champion is fine What are they doing to 'push' safety, ie, meetings, committee, champion, cross functional safety team, etc.]  Do all employees know the policy for reporting injury accidents/near misses?  [Brief interview with any employee and ask 'If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification.]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points.]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	Are all visitors/contractors required to sign in and out on the facility logbook?			~		
Does the facility have a safety team in place? Who is the safety champion?  [Safety or driver champion is fine What are they doing to 'push' safety, ie, meetings, committee, champion, cross functional safety team, etc.]  Do all employees know the policy for reporting injury accidents/near misses?  [Brief interview with any employee and ask 'If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification.]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points.]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	[Walk in and begin conducting business without signing in (unless asked to of course) to verify that someone does ask					
[Safety or driver champion is fine What are they doing to 'push' safety, i e, meetings, committee, champion, cross' functional safety team, etc.]  Do all employees know the policy for reporting injury accidents/near misses?  [Brief interview with any employee and ask 'If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification.]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	you to sign in]					
functional safety team, etc ]  Do all employees know the policy for reporting injury accidents/near misses?  [Brief interview with any employee and ask 'If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification ]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	Does the facility have a safety team in place? Who is the safety champion?	25CF		<b>X</b>		
Do all employees know the policy for reporting injury accidents/near misses?  [Brief interview with any employee and ask 'If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification ]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	[Safety or driver champion is fine What are they doing to 'push' safety, i e, meetings, committee, champion, cross					<u> </u>
[Brief interview with any employee and ask If you get hurt today what do you do?'  Policy is in Pilgrim HSE Accident Injury Reporting & Notification ]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	functional safety team, etc ]					
Policy is in Pilgrim HSE Accident Injury Reporting & Notification ]  Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	Do all employees know the policy for reporting injury accidents/near misses?					<u> </u>
Does the location have an Emergency Evacuation Route Plan posted at all exits with assembly points clearly marked?  [Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	[Brief interview with any employee and ask 'If you get hurt today what do you do?'					
[Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	Policy is in Pilgrim HSE Accident Injury Reporting & Notification ]					
[Look for a map near all entrances and exits with indicator(s) for assembly points]  How often does the facility conduct safety meetings?  [Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]		1		1-110	],	
[Look for a map near all entrances and exits with indicator(s) for assembly points]		A PAIL		40 V	165	<del> </del>
[Ask facility manager Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]	[Look for a map near all entrances and exits with indicator(s) for assembly points]				ļ	ļ
	How often does the facility conduct safety meetings?	4.4		12_	<u> </u>	<u> </u>
		(17)		,		
Do forklift operators have seat belts secured?	[Ask facility manager_Ask to see safety meeting log/minutes to validate they are conducting at least 1/month]				<u></u>	<u> </u>

[Observe forklift operator and verify seatbelt is secured. If not, alert supervisor immediately.]	<u></u>	11			
Describe housekeeping in plant and office area.	1000	7			
Are cylinders being rolled one at a time for distances greater than 5 feet? Are employees rolling more than	one cylir	ıder			
at a time?					
[Policy = may roll 1 cylinder at a time for no more than 5 feet. If infraction to policy, alert facility manage	er				
immediately]					
Is there a dedicated HSE training file established for each employee.	Wes				
[Ask to see the file]	$\Lambda$	-			
Interview employees to find out what they think of the locations safety program. What would they do to imp	prove saf	ety			
at the location? How much safety training have they received?			j		
[Save this question for the closing meeting]					

kr

Comm	ients:				

23,72 Le 16 In ho from R requied this year. - Label bucket a fleannus ph Styr release Munueter Som Standay Continen - Corrows Scrither - Rhusempty contener rules for paint contener & = empty Spray Cens go in trash -- Stup drumand capani remeno oil/later Oil storage area = filters Dd marthly - Add Check Merk on - put ocensol Spray cans in flanrekler cahut when not in use - Relabel Old Lime tarks = emptylakele - 40,000/hs Argon
Why V Steraes Limits
Hosafluorvethane, Sulfur Heasa fluoria Tota Fluoromashane,





90670LQDRC8832D KARLBRUSKOTTER OR CURRENT ENVIRONMENTAL MANAGER AIR LIQUIDE AMERICA CORP. 8832-DICE RD. SANTA FE SPRINGS, CA 90670.



d.

## U.S. ENVIRONMENTAL PROTECTION AGENCY TRI PROGRAM DIVISION WASHINGTON, D.C. 20460

(074

90670LQDR C8832D KARL BRUSKOTTER OR CURRENT ENVIRONMENTAL MANAGER AIR LIQUIDE AMERICA CORP 8832 DICE RD. SANTA FE SPRINGS CA 90670

## TOXIC RELEASE INVENTORY FACILITY DATA PROFILE

This notice provides information recently submitted by you in your Form R or Form A reports, or corrections included in a response to a previous Facility Data Profile, that we have entered into the Toxic Release Inventory database.

The EPA wishes to accurately represent the data reported by your facility. We believe our data capture process is of high quality. However, as a final quality measure, please verify the data presented in the enclosed Facility Data Profile. This Facility Data Profile serves two primary purposes. First, we want to give you the opportunity to confirm that we have entered your data correctly into our national computer system. If we have not, advise us so we can make corrections. Second, if we identify potential errors in the forms you have submitted, we indicate what these errors are and request that you provide us with corrections.

If the data presented in the enclosed Facility Data Profile do not match those on the form(s) you submitted, or if we have identified errors in your forms, or if you have discovered an error in your submitted data, please respond within 21 days of receipt of this notice. If we have identified errors in your submitted data, you must respond with corrections to these errors. Depending on the severity of the error we have identified, failure to correct errors could result in the issuance of a notice of noncompliance.

The enclosed Facility Data Profile is comprised of the following sections:

**Instruction and Signature page** – This first page provides instructions for how to review and respond to this Facility Data Profile.

Facility Information (Primary Facility) - This section displays all facility specific data that you provided, inclusive of TRI Facility Identification, facility name, facility address, facility mailing address, relevant permits (e.g., RCRA, NPDES, and UIC), Standard Industrial Classification code (SIC), and other facility data.

Facility Information (Establishment) - If you have reported as a multi-establishment facility, we are providing these subordinate facility data.

Chemical Summary - This section lists all chemicals reported by your facility for each reporting rear affected by this Facility Data Profile. For example, if this Facility Data Profile is responding to five original chemical submissions for reporting year 1999 and revisions to one chemical for reporting year 1998, a list of all chemicals for both years will appear.

Chemical Reports for this Facility or Establishment - All recently processed Form R or Form A submission data (i.e., chemical specific data) are displayed here under the appropriate facility or subordinate facility names. This Facility Data Profile prints chemical reports for recent submissions, revisions or responses to Facility Data Profile only. Hence there may be fewer chemical reports than chemicals listed in the Chemical Summary section. If only facility level changes have occurred (i.e., Part I of the Form R or A), this section is not provided.

The enclosed Facility Data Profile only covers those Form R or Form A reports which have completed our internal data quality checks. If any new Form R or A reports or revisions submitted by your facility are not covered by the enclosed Facility Data Profile, you will be receiving additional correspondence from us

Please read and follow the instructions on the first page of the enclosed Facility Data Profile. If you need to respond to the Facility Data Profile, please respond within 21 days of receipt.

If you have any questions concerning this notice, please contact the EPCRA Reporting Center at: 703-816-4434 (EPCRA Reporting Center User Support, ask for TRI Mailouts) or e-mail at. tri\_mailouts@epcra.org. You may also wish to check EPA's TRI website for TRI information and updates at <a href="http://www.epa.gov/tri/">http://www.epa.gov/tri/</a>.

Thank you for your cooperation in this matter.

Sincerely,

ISI Bruce Schillo, Chief
TRI Information and Outreach Branch (MS-2844)

TRI Facility Identification No. 90670LQDRC8832D

#### INSTRUCTIONS FOR RESPONDING TO TRI FACILITY DATA PROFILE

- 1. This Facility Data Profile presents the information you have submitted on the Form Rand A reports and that EPA has fully processed. The specific chemicals covered by this Facility Data Profile are shown in the Chemical Summary section.
- Please review this Facility Data Profile to make sure that EPA has accurately entered your submitted information. If any of the data are incorrect, or you have discovered an error, in your submitted data, please circle the incorrect information and indicate the correct information next to it. Please print clearly and use a dark black or blue ink pen. Do not use this response to withdraw a particular Form R or A.
- If we have identified any potential errors in your submitted data (there will be one or more sections titled, Errors Identified), please correct the error by circling the incorrect value and indicate the correct value next to it. Please print clearly and use a dark black or blue pen. If you believe that an error we have identified is really not an error, please provide a brief explanation in the space provided.
- If you are making any corrections pursuant to the instruction in steps 2 and 3 above, you must sign the certification statement below. Then mail this signed page plus all pages on which you have marked corrections. Do not return pages on which you have neither marked changes nor provided explanations. Please mail your response within 21 days of receipt of this Facility Data Profile to the address indicated at the bottom of this page and also send a duplicate copy to the same State organization to which you sent a copy of your original submission. EPA recommends that Government-Owned-Contractor-Operated (GOCO) facilities send copies of their responses to their associated Federal facilities.
- If you identify no errors in the data presented here and we have identified no errors, no response is necessary.

#### CERTIFICATION STATEMENT

I certify that I have reviewed the attached pages from the Facility Data Profile, and to the best of my knowledge and belief, the information and any corrections I have made to it are true and complete and that the amounts and values presented are accurate based on reasonable estimates using data available to the preparers of this response.

AARON)	۷.	1ESCH	PLANT	MANIATZE	<
			Operator or Seni	ior Management	Official (Print)
	<u> </u>		•	٥	`

Summy L. Vesch

Date Date

RESPONSE ADDRESSES

Regular Mail:

Certified Mail, Overnight Delivery, Hand Delivery:

The EPCRA Reporting Center Attn: Facility Data Profile Response P.O Box 3348

Merrifield, VA 22116-3348

EPCRA Reporting Center (Tel: 703-816-4445) Attn: Facility Data Profile Response

C/O Computer Based Systems Inc.
4600 North Fairfax Drive Suite 300
Arlington, VA 22203

And send copy to your state.

2. 7.24. 11

#### **FACILITY INFORMATION:**

TRI Facility Identification No: 90670LQDRC8832D

Primary Facility Name and Address:

AIR LIQUIDE AMERICA CORP

8832 DICE RD.

SANTA FE SPRINGS, COUNTY LOS ANGELES CA 90670

Technical Contact Name . KARL BRUSKOTTER

Public Contact Name: TOBY ERICKSON

Latitude: 033-55-55

Facility Type (Federal/GOCO/Commercial): COMMERCIAL

Name of Parent Company: AIR LIQUIDE AMERICA CORP.

Parent Company Dun & Bradstreet No: 064977424

SIC Code

2813

Facility Dun & Bradstreet No

064977424

NA

EPA ID No. (RCR 4 No.) CAD000021160

NΑ

Internal Use - Eacility ID: 14060

Mailing Address:

NA:

Telephone No: 562 906 8705

Telephone No: 562-945-1383

Longitude: 118-03-07

Facility NPDES No NA

Underground Injection Well Code (ID No.):

15: 15 (ali

#### CHEMICAL REPORT SUMMARY:

actifity Data Profile Notice No. FP-01-0	00993 9	Too in July Profile	NO RESPONDED	Facili	ty Data Profile Date: 3-26-2001
CHEMICAL REPORT SUM	 IMARY:	THEMOAL	(A)		
<ul><li>Data for this chemical report (Fo</li><li>File Document</li></ul>	orm R or A) include	ed in the Chemical Reports section.  Chemical/Generic/	Or	riginal t Mar k	Post Mark Received
Number Control Number	Category Code	Mixture Name		)ate	Date Date
Reporting Year: 1999 80-00-00022361 0 13-99-135-15870-3	115071 *	PROPYLENE	06-2	29-2000	06-29-2000 07-10-2000

	For Internal Use O	nly	6= == =; ·
TRI Facility ID No	90670LQDRC8832D	Reporting Year	1999
Chemical Name	PROPYLENE	-	
Document Control Number	13-99-135-15870-3	Post Mark Date	06-29-2000
File Number	SU-00-00022361-0	Received Date	07-10-2000

#### CHEMICAL REPORTS FOR THIS FACILITY OR ESTABLISHMENT:

PART 1:

1.0 Reporting Year: 1999

2.0 Trade Secret Information:

ation: 2.1 Trade Secret: NO

2.2 Sanıtized: NO

3.0 Certification

Official Name: TOBY ERICK

Title: PLANT MANAGER

Aaron Tesch

Date Signed 06-28-2000

4.2 This Report Contains Information for:

4.5 SIC Code(s):

2813 - Primary SIC

a An entire facility: YES

b Part of a facility: NO

c. A Federal Facility: NO

PART II:

1.0. Toxic Chemical Identity:

1.1. CAS Number or Chemical Category Code. 115071

1.2. Toxic Chemical or Chemical Category Name PROPYLENE

1.3. Generic Chemical Name: NA

2.0. Mixture Component Identity:

2.1. Generic Chemical Name Provided By Supplier: NA

3.0 Activities and Uses of the Toxic Chemical at the Facility:

3.1 Manufacture the toxic chemical:

If Produce or Import:

A. Produce: NO

C. For on-site use/processing: NO

D. For sale/distribution: NO

B. Import: NO

E. As a byproduct: NO

F. As an Impurity: NO

3.2. Process the toxic chemical:

A. As a reactant: NO

B. As a formulation component NO

C. As an article component. NO

D. Repackaging: YES

3.3. Otherwise use the toxic chemical:

A. As a chemical processing aid: NO

B. As a manufacture aid: NO

C. Ancillary or other use: NO

4.1. Maximum Amount of the Toxic Chemical On-Site at any Time During the Year:

Range from 1,000 To 9,999 (lb)

5.0 Quantity of the Toxic Chemical Entering Each Environmental Medium On-site

Air Emissions

A. Total Release

B. Basis of Estimate

5.1 FUGITIVE OR NON-POINT AIR EMISSIONS

2200

**O-OTHER APPROACHES** 

5.2 STACK OR POINT AIR EMISSIONS

NA

**DICE 01075** 

For Internal Use Only						
TRI Facility ID No	90670LQDRC8832D			Reporting Year	1999	
Chemical Name	PROPYLENE		1 -		-	
Document Control Number	13-99-135-15870-3			Post Mark Date	06-29-2000	
File Number	SU-00-00022361-0			Received Date	07-10-2000	

5.3 Discharges to Receiving Streams or Water Bodies Stream or water body name: A. Total Release B. Basis of Estimate C. % from Stormwater

5.3 1 NA

_			A.lotal	B. Basis of -
		Underground Injection/Land Disposal	Release	Estimate
	5.4.1	Underground Injection On-Site To Class 1 Wells	<u>na</u>	
	5.4.2	Underground Injection On-Site To Class II-V Wells	<u>NA</u>	
	5.5.1A	Rera Subtitle C Landfills	<u>NA</u>	
	5.5.1B	Other Landfills	<u>NA</u>	
	5.5.2	Land Treatment / Application Farming	<u>NA</u>	
	5.5.3	Surface Impoundment	<u>NA</u>	
	5.5.4	Other Disposal	<u>NA</u>	

6.0 Transfers of the Toxic Chemical in Waste to Off-site Locations 6.1 Discharges to Publicly Owned Treatment Works (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1 Total Transfers. NA

6.1.A 2 Basis of Estimate:

6.1.B.1

POTW NAME

POTW Address:

City County: State. Zip:

6.2 Transfers to Other Off-site Locations

6.2.1 Off-Site EPA Identification Number (RCRA ID No.) MA

Off-Site Location Name: NA

Off-site Address:

City: State: County: Country: Zip:

Location under control of reporting facility or parent company:

Total Transfers Basis of Estimate Type of Waste Treatment/Disposal/ Recycling/Energy Recovery

1

7A On-Site Waste Treatment Methods & Efficiency

7A.1

- a General Waste Stream: NA
- c. Range of Influent Concentration:
- d. Waste Treatment Efficiency Estimate(%):
- e. Based on Operating Data:
- b Waste Treatment Method Sequence:

7B On-site Energy Recovery Processes

NA

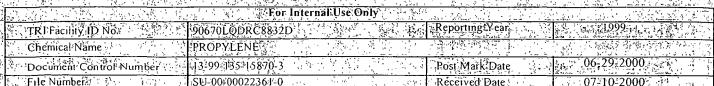
7C On-site Recycling Processes

NIA

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1.





FILE	Numbers 17 1159-00-00022504-0 115	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Received Date	07-10-2000	
0 Source	e Reduction & Recycling Activities	Col. A	Current	Col C Gol D Following Second Follow	
in the second		Year	Year	Year Wear	
8.1.	Quantity-Released	કુપ્રોત્કુર કરવાના કરાય સ્ક્રાફ કરાયા કરવાના કરવાના કરવાના કરવાના કરવાના કરવાના કરવાના કરવાના કરવાના કરવાના ક		ANA STANTAGE	kata katang dan Kabupatèn
8.2	Quantity Used For Energy Recovery On-Site		B., 3	NIA	or and any many
8.3	Quantity Used For Energy Recovery Off-Site	0	0	NIA NIA	
8.4	Quantity Recycled On-Site			NIA NIA	
8.5	Quantity Recycled Off-Site	0	Q.	NIATION AND	7.0
8.6 8.7	Quantity Treated On-Site  Quantity Treated Off-Site		A A DO	AM THE AIL	
8.8	Quntity Released as a Result of Remedial, Catastrophic or One Time Events			0	
8.9	Production Ratio or Activity Index	1.		O .	
,	(* · · · · · · · · · · · · · · · · · · ·				·
8.10 S	Source Reduction Activities Method A		Method B	Method C	*
8 10.1	_ w,a5				

	\$ \$ 1,000 C \$ 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	为 <u>一个说话,一头好你们,这个话的话的,我知道这一点的</u> 情况,也就能够说话的情况,但这一点情况的话,就是一个时间,一个人说话,一点是说的,不是是一个人,是是一个人,是
	ATTAPLE THE PORT OF	For Internal Use Only with the second
<i>i</i> . V	TRI Facility ID No	90670EQDRE8832D
3	Chemical Name	PROPYCENE
#** *	Document Gon tol Number	13499-135-15870-3 Post Mark Date 06-29-2000
	File Number (2012)	SU-00-00022361-0 Received Date 07-10-2000-

## ERRORS IDENTIFIED IN THIS REPORT

If we indicate in this section, that you have provided invalid data, or if you discover that we omitted or inaccurately altered your submitted data please provide corrections in the following manner:

- Correct the error in the space provided in this section.
- Mark through the erroneous value in the Facility Information or Chemical Report section and write the correct value next to it.
- If we inform you of a disk processing error, please provide a new disk.

					Ι.	
г.	-	 .GR	м.	 		•

ON-SITE ENERGY RECOVER PROCESSES.

ERROR:

There are no data in Part II, section 7B. If no on-site energy recovery processes are used for this Section 313 chemical at your facility, indicate "NA."; otherwise please provide at least one three-character on-site energy recovery process code.

YOUR CORRECTION:

NA

PARAGRAPH:

...-----

ON-SITE RECYCLING PROCESSES

ERROR:

There are no data in Part II, section 7C. If no on-site recycling processes are used for this Section 313 chemical at your facility, indicate "NA."; otherwise please provide at least one three-character on-site recycling process code.

YOUR CORRECTION:

NIA

PARAGRAPH:

II.8.1A .

**II.7C** 

SOURCE REDUCTION AND RECYCLING ACTIVITIES. QUANTITY RELEASED COLUMN A PRIOR YEAR

ERROR:

There are missing data for Part II, Section 8.1 - 8.7. Please provide an estimate or "NA" (Not Applicable) in each box for section 8.1 - 8.7, columns A, B, C, and D. You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound.

YOUR CORRECTION:

Column A+B= D for Sections 8.1 thru 8.7

PARAGRAPH:

II.8.2A

SOURCE REDUCTION AND RECYCLING ACTIVITIES. QUANTITY USED FOR ENERGY RECOVERY ON-SITE COLUMN A PRIOR YEAR

ERROR:

There are missing data for Part II, Section 8.1 - 8.7. Please provide an estimate or "NA" (Not Applicable) in each box for section 8.1 - 8.7, columns A, B, C, and D. You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound.

YOUR CORRECTION:

Column A+B=O Column C+D-DA



	A CONTROL OF THE PROPERTY OF T
For Internal Use Only	which will be a second of the
TRI Facility ID No 20070LODRC8832D	eporting Wear
Chemical Name PROPYLENE	
Document Control Number	ost Mark Date 2000 25 mg 106-29-2000
File Number of SU-00-00022361-0	eceived Date 0.7-10-2000

SOURCE REDUCTION AND RECYCLING ACTIVITIES QUANTITY USED FOR ENERGY PARAGRAPH: - II.8.3A RECOVERY OFF-SITE COLUMN A PRIOR YEAR There are missing data for Part II; Section 8 F - 8.7 Please provide an estimate or "NA" (Not Applicable) in each box **ERROR** for section 8 1-38.7, columns A, B, C, and D, You may only use "NA" (Not Applicable) when there is no spossibility a release or mansfer occurred You may enter zero if the release or transfer was equal to or less than half a pound 🔭 🞏 Column A-B=O YOUR CORRECTION: Column C+ D-NA SOURCE REDUCTION AND RECYCLING ACTIVITIES QUANTITY RECYCLED ON SITE PARAGRAPH: COLUMN A PRIOR YEAR ERROR. There are missing data for Part II; Section 8.1, 8.7. Please provide an estimate or "NA" (Not Applicable) in each box for section 811-18.7, columns A, B\C, and D. You may only use "NA" (Not Applicable) when there is no possibility at release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound. Column A+ B=O Column C=D=NA SOURCE REDUCTION AND RECYCLING ACTIVITIES: QUANTITY RECYCLED OFF-SITE PARAGRAPH: II.8.5A COLUMN A PRIOR YEAR ERROR: There are missing data for Part II, Section 8.1 - 8.7 Please provide an estimate or "NA" (Not Applicable) in each box for section 8.1 - 87, columns A, B, C, and D. You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound. Column A+B=0 YOUR CORRECTION: Column C+D-NA SOURCE REDUCTION AND RECYCLING ACTIVITIES. QUANTITY TREATED ON-SITE PARAGRAPH: 11.8.6A COLUMN A PRIOR YEAR ERROR: There are missing data for Part II, Section 8.1 - 8.7. Please provide an estimate or "NA" (Not Applicable) in each box for section 8.1 - 8.7, columns A, B, C, and D. You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound. YOUR CORRECTION: Column AB= D Column COD=NA PARAGRAPH: II.8.7A SOURCE REDUCTION AND RECYCLING ACTIVITIES QUANTITY TREATED OFF-SITE COLUMN A PRIOR YEAR There are missing data for Part II, Section 8.1 - 8.7. Please provide an estimate or "NA" (Not Applicable) in each box ERROR: for section 8.1 - 8.7, columns A, B, C, and D. You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the release or transfer was equal to or less than half a pound. YOUR CORRECTION: Column A=B=D Column CAD=NA SOURCE REDUCTION AND RECYCLING ACTIVITIES. ONE TIME RELEASE PARAGRAPH: 11.8.8

ERROR:

There are missing data in Part II, Section 8.8. Please provide an estimate or "NA" (Not Applicable). You may only use "NA" (Not Applicable) when there is no possibility a release or transfer occurred. You may enter zero if the

release or transfer was equal to or less than half a pound.

YOUR CORRECTION: .

PARAGRAPH:

11.8.9

SOURCE REDUCTION AND RECYCLING ACTIVITIES PRODUCTION RATIO OR ACTIVITY INDEX

ERROR: There are no data in Part II, Section 8.9. Please provide a production ratio, an activity index, or "NA" (Not Applicable) if the chemical manufacture or use began during the current reporting year

YOUR CORRECTION:

	For Internal Use Only			
TRI Facility ID No	90670LQDRC8832D	Reporting Year	1999	
Chemical Name	PROPYLENE		-	
Document Control Number	13-99-135-15870-3	Post Mark Date	06-29-2000	
File Number	SU-00-00022361-0	Received Date	07-10-2000	

PARAGRAPH:

11.8.10

SOURCE REDUCTION ACTIVITIES TO IDENTIFY ACTIVITY

ERROR:

There are no data in Part II, Section 8 10. If your facility did not engage in any source reduction activity for the reported chemical, enter "NA" (Not Applicable) and answer 8.11. Otherwise please provide Source Reduction Activities and Methods code(s) \_\_\_\_

YOUR CORRECTION:

8.10.1 W25 a. TII

8,10,2

W58 W89 8,10.3

PARAGRAPH:

11.5, 6, 8.1-8

MULTI PARAGRAPH

ERROR:

You did not complete Section 8.1 - 8.7 column B or 8 8. If you report releases in Part II, Section 5 and/or an off-site transfer in Section 6.2 and/or quantities transferred off-site to POTWs in Section 6.1, you must report an estimate in Part II, Section 8.1 through 8.7 column B and/or Section 8.8.

YOUR CORRECTION:

						Page 5 of 5			
	EPA I	ORM R		TRI Facility	ID Number				
P	ART II. CHEMICAL-SPECI	FIC INFORMATI	ON (CONTINUE	D)					
				Toxic Chem	Ical, Category or (	Generic Name			
SEC	SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES								
	Check here	o If no on-site energy reco	very is applied to any was	·e					
<u> </u>		taining the toxic chemical	or chemical category						
	nergy Recovery Methods (enter 3-characte	er code(s)]		<b>,</b>		}			
1	2	3		4					
SEC	TION 7C. ON-SITE RECYCLING	PROCESSES							
V	Not Applicable (NA) - Chack here if n stream contain	o on-site recycling is appli alog the toxic chomical or							
F	Recycling Mathods (enter 3-diseactor code)	5)]			· · · · · · · · · · · · · · · · · · ·				
1.	2.	Э.	4		5.				
e	7.	B	9		10.				
SEC	TION B. SOURCE REDUCTION	AND RECYCLING	ACTIVITIES						
		Column A	Column B	Column	C	Column D			
		Prior Year	Силелі Reporting Yea	r Following	Year S	econd Following Year			
	· ·	(pounds/year)	(pounds/year)	(pounds/y	ear)	(pounds/year*)			
B.1	Quantity released ***	0	0	NIA	·	NIA			
8.2	Quantity used for energy recovery analite	0	Ø	NIA		NH			
B.3	Quantity used for energy recovery offsite	Ò	0	NIA	f	NIA			
B.4	Quantity recycled onsite	0	σ	NIA		NIA			
8.5	Quantity recycled offsite	0	0	NIA		NIA			
8.6	Quantity treated onsite	0	0	NIA	!	NIA			
B.7	Quantity treated offsite	0	$\overline{\partial}$	NIA	1	NIX			
B.8	Quantity released to the environment as a result of remedial actions, Catastrophic avents, or una-time events not associated with production processes (pounds/year)								
B.9	Production ratio or activity index			r	)				
A #0	Did your facility engage in any source reduced and answer S	uction activities for this cha Section 6.11.	omical during the reporting	year? If not,	<del></del>				
8.10	Source Reduction Activities Methods to Identify Activity (enter codes)  [enter code(s)]								
8.10.1	W25	a. T11	b.		C.				
B.10.2	W 58	8.	b.		C.				
B.10.3	W 89	8.	b.		G.				
8.10.4		a.	b.		c.				
B.11	is additional information on source reducts included with this report 7 (Check one box	on, recycling, or poliution o		<del></del>	YES				
	Included with this report ? (Check one box)								

EPA Form 9350-1 (Rev. 01/2001) - Previous editions are obsoleta.

For Dioxin or Dioxin-like compounds, report in grams/year

Report releases pursuant to EPCRA Section 329(8) Including \*any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, ascaping, leaching, dumping, or disposing into the onvironment,\* Do not include any quantity treated unsite.

orm Approve 48 Number 2070-0143

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Approval Expires	10/31/2003	

Page 1 of

					•		
9	United States		CHEMICAL RELEA	SE INVENTOR	Υ		
•	Environmental Protection	n Agency	FORM A				
WHE	RE TO SEND COMPLETED FORMS	i: 1 TRI Data Processing Cer P O Box 1513 Lanham, MD 20703-1513	(See instructions i		Enter "X" here if	this	
		· ·	L RELEASE INVENTORY		For EPA use only		
lmr	ortant: See instructions t	to determine when "N	lot Applicable (NA)	" boxes shou	ld be checked		
		ART I. FACILITY IDE				<u> </u>	
SEC	CTION 1. REPORTING YEAR	3 200 2					
	CTION 2. TRADE SECRET I					<del></del>	
2.1	Are you claiming the toxic chemical id Yes (Answer question 2.2, Attach substantiation form	No (Do not answe	2.2 is this column (Answer of	py Sai	nitized U	Insanıtızed	
SEC	CTION 3. CERTIFICATION	(Important: Read and	sign after completing	g all form secti	ons.)		
	eby certify that to the best of my knowle						
	unt as defined in 40 CFR 372 27 (a), di						
	ufactured, processed, or otherwise used e and official title of owner/operator or s		nation pourtos during uns rep	Signature:	11 0	Date Signed:	
	aron Tesch	- India Menagement emeral		land &	Tenal)	1/23/03	
	CTION 4. FACILITY IDENTIF	ICATION		Juni 4/1	marc	10/22/-5	
4.1			TRI Facility ID Number	/			
	ly or Establishment Name		Facility or Establishment Na	Facility or Establishment Name or Mailing Address(if different from street address)			
A	ir Liquide Amer	rica					
Stree	t		Mailing Address				
4	3832 Dire Rd			ame			
			City/State/Zip Code			Country (Non-US)	
Sa	nta Fe Springs	CA 906/0		T			
4.2	This report contains information for		plicable)	c A Fed		GOCO	
	Technical Contact Name	Josh Mern	- /cle/n	Tele	ephone Number (include	e area code)	
4.3	Technical Contact Name	Josh Mern	1 e (5 x e i n	Ţ	762464 5.	241	
	Email Address Jøshua	a.mermelsteln a	air liquide.	com			
4.4	Intentionally left blank						
4.5	SIC Code (s) (4 digits)	a. <b>1</b> 5 b. <b>4</b>	r   c. 6	d. <b>9</b>	e.	f.	
4.6	Latitude Degrees	Minules Seco	nds Longitude	Degrees	Minutes	Seconds	
	Dun & Bradstreet	PA Identification Number	A D Facility NPDES Per	118 mit 140 U	nderground Injection V	Vell Code	
4.7	Number(s) (9 digits) 4.8 (F	RCRA I D No ) (12 characters)	Number(s) (9 chara	14 101	IIC) I D. Number(s) (1		
a. <i>C</i> b.	6-497-7424 a. C.	11 COOC 211 68	a. b.	a. b.			
	TION 5. PARENT COMPAN	Y INFORMATION	J	<del></del>	<del></del>		
5.1	Name of Parent Company N	IA X		······			
5.2	Parent Company's Dun & Bradstreet	Number NA					

_		

	EPA FORM A								
	PART II. CHEMICAL IDENTIFICATION TRIFID:  Do not use this form for reporting PBT chemicals including Dioxin and Dioxin-like Compounds*								
2507		~	<del></del>						
SECI	ION 1. TOXIC CHEMICAL IDENTITY	Report _	_ <del>-ot</del>						
1.1	CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)	<del></del>	<del></del>						
	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list)								
1.2	Propylene								
	Genenc Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Genenc Name must be structurally descriptive.)								
1.3 Propylene									
SECT	1 above.)								
2.1	Generic Chemical Name Provided by Supplier (Important Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)		· · · · · · · · · · · · · · · · · ·						
SECTI	ON 1. TOXIC CHEMICAL IDENTITY	Report _	of						
1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)								
1.2	Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list )								
	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)		<del></del>						
1.3	Generic Chemical Matte (important, complete only if rart 1, Section 2.1 is discussed 363. Section many assumption of								
SECTI	ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1	 1 above.)	<del></del>						
	Generic Chemical Name Provided by Supplier (Important, Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)	•,							
2.1									
	ON 1. TOXIC CHEMICAL IDENTITY	Report _	of						
SECTI		Report _	_of						
	ON 1. TOXIC CHEMICAL IDENTITY	Report _	_ of						
SECTI	ON 1. TOXIC CHEMICAL IDENTITY	Report _	_of						
SECTI	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)	Report _	_ of						
SECTI	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)	Report _	_of						
SECTI 1.1 1.2	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)		_of						
SECTI 1.1 1.2	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY. (Important: DO NOT complete this section if you completed Section 1		_of						
SECTI 1.1 1.2	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)		_of						
1.1 1.2 1.3 SECTION	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important' Complete only if Part 1. Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)	1 above.)							
1.1 1.2 1.3 SECTION 2.1 SECTION	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important' Complete only if Part 1. Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)								
1.1 1.2 1.3 SECTION	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY	1 above.)							
1.1 1.2 1.3 SECTION 2.1 SECTION 1.1	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY	1 above.)							
1.1 1.2 1.3 SECTION 2.1 SECTION	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important. Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important. Complete only if Part 1. Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY. (Important: DO NOT complete this section if you completed Section 1. Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important. Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)	1 above.)							
1.1 1.2 1.3 SECTION 2.1 SECTION 1.1	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important. Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important. Complete only if Part 1. Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY. (Important: DO NOT complete this section if you completed Section 1. Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important. Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)	1 above.)							
SECTION 1.1  1.2  1.3  SECTION 2.1  SECTION 1.1  1.2  1.3	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important' Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY. (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)	l above.) Report							
SECTION 1.1  1.2  1.3  SECTION 2.1  SECTION 1.1  1.2  1.3	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important Complete only if Parl 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important, Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Parl 1, Section 2.1 is checked "yes" Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1	l above.) Report							
SECTION 1.1  1.2  1.3  SECTION 2.1  SECTION 1.1  1.2  1.3	ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important' Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)  ON 2. MIXTURE COMPONENT IDENTITY. (Important: DO NOT complete this section if you completed Section 1  Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)  ON 1. TOXIC CHEMICAL IDENTITY  CAS Number (Important Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  Toxic Chemical or Chemical Category Name (Important Enter only one name exactly as it appears on the Section 313 list.)  Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)	l above.) Report							

\* See the TRI Reporting Forms and Instructions Manual for the list of PBT Chemicals (including Dioxin and Dioxin-like Compounds)
EPA Form 9350-2 (Rev 03/2003) - Previous editions are obsolete.

(Make additional copies of this page, if needed)

Approval Exp. .01/01/2001 Page 1 of 5

9	EPA

5.1

5.2

Name of Parent Company

Parent Company's Dun & Bradstreet Number

### FORM R -

TUXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

1	,		-	. •		-	31401	_141 01.	() KEI OKIMO	. 011111
	ed States ' Pronmental Protency	ection Sect also	tion 313 of the Eme known as Title III o	ergency F of the Sup	Plannin perfund	g and Commun d Amendments	ity Right and Rea	-to-Kno uthoriza	w Act of 1986, ation Act	
WHE	RE TO SEND COM	PLETED FORM	MS: 1. EPCRA Report	ting Center		APPROPRIATE ST			Enter "X" here if is a revision	this
			Memfield, VA 2			SE INVENTORY		<u>                                     </u>	For EPA use only	
lmp	ortant: See ir	structions	to determine w	hen "No	ot App	plicable (NA)'	' boxes	shoul	ld be checked	l.
		Р	ART I. FACILI	TY IDEI	NTIF	CATION INF	ORMA	TION		
SEC	TION 1. REPO	RTING YEA	R 1999							
SEC	TION 2. TRAD	E SECRET I	INFORMATION							
2.1	Yes (Answe	ne toxic chemic ir question 2.2, substantiation f		trade secre not answer o Section 3	2.2,	2.2 Is this copy (Answer or		Sani " in 2 1)	tized U	Insanitized
SEC	TION 3. CERT	IFICATION	(Important: Rea	d and sig	n afte	r completing a	ll form s	ection	s.)	
ınforn		omplete and tha	attached documents ar at the amounts and valu this report							
Name	e and official title of	owner/operator	or senior management	official	Signature			<del></del>		Date Signed
	ERICKSON		PLANT MANAGER	!						06/28/2000
SEC	TION 4. FACIL	ITY IDENTI	FICATION			·				
4.1					TRIFa	ocility ID Number 1	NEW F-ACIL	FTY123		
Facilit	y or Establishment Nar	ne			Facility	or Establishment Nam	e or Mailing	Address(il	f different from street a	ddress)
AIR LIC	DUIDE AMERICA CORPO	RATION			<u> </u>					
Street					Mailing	Adaress				
	DACS BOOK	<del>,</del>					·			
	ounty/State/Zip Code	LOS ANGELE	es c.	A 90670-	City/Co	unty/State/Zip Code				
4.2	This report conta			аХ	An ent facility		Par faci	t of a lity	c A F	ederal lity
4.3 Technical Contact Name KARL BRUSKOTTER					Telephone Number (include area code (562) 906 - 8705					e area code)
4.4 Public Contact Name TOBY ERICKSON								<u> </u>	phone Number (include) 945 - 1383	e area code)
4.5	SIC Code (s) (4 o	igits)	2813	b.		c.	đ.		e.	f.
4.6	Latitude	Degrees	Minutes	Secor	nds		Degi	rees	Minutes	Seconds
7.0		933	55	55		Longitude	118		03	07
4.7	Dun & Bradstreet Number(s) (9 digi	ts) 4.8	EPA Identification Nur (RCRA I D. No.) (12 d			Facility NPDES Per Number(s) (9 chara			nderground Injection IC) I D. Number(s)	
	64977 <b>424</b> IA		CAL000021160 NA		a N/	4	a			
			NY INFORMATION	.l	b.		þ			
		OOM M		4						

AIR LIQUIDE AMERICA

NΑ

064977424

# EPA FORM R PART II. CHEMICAL-SPECIFIC INFORMATION

RI Facility ID N	umber
NEW F-ACILI-TY	(123
Toxic Chemical,	Category or Generic Name
PROPYLENE	

SECT	ION 1. TO	XIC CHEMICAL	IDENTITY	(Important: DO NOT compl	ete this section if you co	mpleted Section 2 below.)		
1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)  ONO 1.15071							
1.2	Toxic Chemical or		Important: Enter only	one name exactly as it appears on the Section 3	13 hst.)			
	PROPYLEN	Vame (Important: Complete	ylna	if Part 1, Section 2.1 is checked "yes" Gene	oric Name must be structurally dose	rining \		
1.3	NA	valle (hispertant, complete	5 July	Wight 17 Section 2.1 is discussed year death		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SECT	ION 2. MD	XTURE COMPO	NENT IDENT	ITY (Important: DO NOT compl	lete this section if you co	mpleted Section 1 above )		
	Generic Chemical	Name Provided by Supplier	r (Important: Maximun	of 70 characters, including numbers, letters, sp	paces, and punctuation )			
2.1	NA							
SECT	SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY  (Important: Check all that apply.)							
3.1	Manufactu	ire the toxic che	mical: 3.2	Process the toxic chemical:	3.3 Otherwise	use the toxic chemical:		
a.	Progu	ce b. Imp	noc			······································		
	If prod	luce or import:						
c.	For or	I-site use/processing	] a.	As a reactant	a. As a che	mical processing aid		
d.	Forsa	ale/distribution	b.	As a formulation component	b. As a mai	As a manufacturing aid		
e.	Asat	yproduct	c.	As an article component	c. Ancillary	or other use		
f.	As an	impurity	d.	X Repackaging	ا ا			
SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR								
4.1	03	(Enter two-d	ligit code from	instruction package)				
SECT	TION 5. QL	JANTITY OF TH	E TOXIC CHI	MICAL ENTERING EACH E	NVIRONMENTAL ME	DIUM ONSITE		
				A. Total Release (pounds/year)	B. Basis of Estimate	C. % From Stormwater		
			<del>,</del>	(Enter range code or estimate*)	(enter code)			
5.1	Fugitive or n air emissions		NA	2200	0			
5.2	Stack or poll air emissions		NA x	NA				
5.3		o receiving streams (enter one name pe						
	Stream or	Water Body Nar	me					
5.3.1	NA							
5.3.2								
5.3.3								
5.4.1	Underground to Class I We	l Injection onsite ells	NA X	NA				
	to Class II-V		NA X	NA				
		of Part II, Section 5.		ndicate the total number of pages	L 5			
and nit	חייים כב נווב בצו	it ii. Gecholi bib þag	te uminaet in gil	s box.   1   (example: 1,2,3, et	ic.)			

# EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

	· · · · · · · · · · · · · · · · · · ·
Ī	To Facility ID Number
	NEW F-ACILI-TY123
	Toxic Chemical, Category or Generic Name
Į	PROPYLENE

SECTIO	N 5. QUANTITY OF	THE TOXIC	CHEMIC	AL ENT	ERING	EACH E	NVIRO	NMENT	AL MEDIU	M ONSITE	(Continued)
		NA	A. Total			year) (entei estimate)	range E	Basis (	of Estimate code)		
5.5	Disposal to land onsite	#4 10 10 10 10 10 10 10 10 10 10 10 10 10	· 图状型			ا من المراد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد المرد ال المرد المرد	Estates of market				
5.5.1A	RCRA Subtitle C landfills	x	NA								
5.5.1B	Other landfills	х	NA						······································		
5.5.2	Land treatment/application farming	on X	NA				-				
5.5.3	.5.3 Surface Impoundment			<del>.</del>		-		<u> </u>			
5.5.4	5.4 Other disposal X										
SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS											
6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)											
6.1.A T	6.1.A Total Quantity Transferred to POTWs and Basis of Estimate										
6.1.A.1. Total Transfers (pounds/year)				<del></del>	6.1.	A.2 Basis	of Estim	ate			
(enter range code* or estimate)						(enter	code)				
NA NA											
6.1,B.1	6.1,B.1 POTW Name NA										
POTW /	Address								1112		
City				State		County				Zip	-
6.1.B.2	POTW Name	<del></del>		<u>-</u>		· · · · · · · · · · · · · · · · · · ·					4
POTW A	Address										
City				State		County				Zıp	T
If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages											
in this b	oox 1 and indicate t	the Part II, Sect	ion 6.1 pa	ge numbe	r in this	box	1 (exa	ample: 1,	2,3, etc.)		
SECTI	ON 6.2 TRANSFERS	TO OTHER	OFF-SIT	E LOCA	TION	5					·
6.2. <u>1</u>	Off-Site EPA Identifica	ation Number	(RCRA ID	No.)		NA					
Off-Site	Location Name NA		· · · · · · · · · · · · · · · · · · ·								····
Off-Site	Address		· ·				<del></del>				
Сіту			State	Co	ounty				v I	Zip	
Is location	on under control of reporting	g facility or pare	nt compan	y?					Yes		No

	EP	A FORM R	· · · · · · · · · · · · · · · · · · ·		i acility ID Numbe NEW F-ACILI-TY123	er -		
PART II. C	HEMICAL-SPECI	FIC INFORMAT	ONTINUED)		gory or Generic Name			
, , , , , , , , , , ,			•		PROPYLENE			
SECTION 6.2	TRANSFERS TO O	THER OFF-SITE L	OCATIO	NS (Continue	d)			
A. Total Transfe	ers (pounds/year) code* or estimate)	B. Basis of Est (enter code)	imate		C, Type of Waste Treat Recycling/Energy R	ment/Disposal/ ecovery (enter code)		
1,		1.			1.			
2.		2.			2.	· · · · · · · · · · · · · · · · · · ·		
. 3		. 3.	-		3			
4. 4.					4.			
6.2. <u>2</u> Off-S	ite EPA Identification N	umber (RCRA ID No	)					
Off-Site location	Name		L					
Off-Site Address	5							
City			State	County		Zip -		
Is location ur	ider control of reporting	ng facility or parent	compan	y?	Yes	No		
	ansfers (pounds/year) ange code* or estimate)	ţ.	asis of Es inter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)			
1.		1.			1.			
2.		2.			2.			
3.		3.			3.			
4.		4.						
SECTION 7/	A. ON-SITE WASTE	TREATMENT MET	HODS A	ND EFFICIENC	CY			
X Not A	nnicable (NA).	ere if no on-site waste to ream containing the toxi			ту			
a. General Waste Stream (enter code)	b Waste Treatm [enter 3-chara	ent Method(s) Sequence cter code(s)]	e	c Range of Influ Concentration		e. Based on Operating Data ?		
7A.1a	7A. 1b 1	2		7A 1c	7A.1d	7A.1e		
NA	3 4 7	5 8			%	Yes No		
7A.2a	7A. 2b 1	2		7A.2c	7A.2d	7A.2e		
	3 4	5 8			%	Yes No		
7A.3a	7A 3b 1	2		7A.3c	7A.3d	7A.3e		
	3 4	5		77.50	77.50	Yes No		
	5 7	8			%			
7A.4a	7A 4b 1	. 2		7A.4c	7A.4d	. 7A.4e		
	6 7	5 8			%	Yes No		
7A.5a	7A 5b 1	2		- 7A.5c	7A.5d	7A.5e		
	3 4	5				Yes No		
	6 7	8			%			
If additional pag	es of Part II, Section 6.2/	7A are attached, indica	te the tota	I number of pages	in this box 1			

1 (example: 1,2,3, etc)

and indicate the Part II, Section 6.2/7A page number in this box :

1

S EPA

### FORM R

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

**United States** Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, Environmental Protection also known as Title III of the Superfund Amendments and Reauthorization Act Agency Enter "X" here if this 2. APPROPRIATE STATE OFFICE WHERE TO SEND COMPLETED FORMS: 1 EPCRA Reporting Center is a revision P O Box 3348 (See instructions in Appendix F) Merrifield, VA 22116-3348 For EPA use only ATTN TOXIC CHEMICAL RELEASE INVENTORY Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked. PART I. FACILITY IDENTIFICATION INFORMATION **SECTION 1. REPORTING YEAR 1999 SECTION 2. TRADE SECRET INFORMATION** Are you claiming the toxic chemical identified on page 2 trade secret? Unsanitized Is this copy Sanitized 2.1 Yes (Answer question 22, No (Do not answer 22, Χ Attach substantiation forms) Go to Section 3) (Answer only if "YES" in 2 1) SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report Name and official title of owner/operator or senior management official Signature Date Signed 06/28/2000 PLANT MANAGER TOBY ERICKSON SECTION 4. FACILITY IDENTIFICATION 4.1 TRI Facility ID Number | NEW F-ACILI-TY123 Facility or Establishment Name or Mailing Address(if different from street address) Facility or Establishment Name AIR LIQUIDE AMERICA CORPORATION Mailing Address Street 8832 DICE ROAD City/County/State/Zip Code City/County/State/Zip Code SANTA FE SPRINGS LOS ANGELES CA 90670 This report contains information for Part of a A Federal An entire Х facility facility facility (Important check a or b; check c if applicable) Telephone Number (include area code) KARL BRUSKOTTER 4.3 **Technical Contact Name** (562) 906 - 8705 Telephone Number (include area code) 4.4 Public Contact Name TOBY ERICKSON (562) 945 - 1383 Primary 4.5 SIC Code (s) (4 digits) 2813 c d. Degrees Minutes Seconds Degrees Minutes Seconds 4.6 Latitude Longitude 033 55 55 118 03 07 Facility NPDES Permit **Dun & Bradstreet EPA Identification Number** Underground Injection Well Code 4.9 4.8 4.10 Number(s) (9 characters) Number(s) (9 digits) (RCRAID No) (12 characters) (UIC) I.D Number(s) (12 digits) 064977424 CAL000021160 NA a. a. NA ÑΑ ΝÄ b. b. b. h SECTION 5. PARENT COMPANY INFORMATION 5.1 Name of Parent Company AIR LIQUIDE AMERICA

**DICE 01088** 

Parent Company's Dun & Bradstreet Number

5.2

064977424

NA

## EPA FORM R PART II. CHEMICAL-SPECIFIC INFORMATION

TRI Facility ID Number	
NEW F-ACILI-TY123	
Toxic Chemical, Category	or Generic Name
PROPYLENE	

							PROPYLENE			
SEC	TION 1. TO	OXIC CHEMICA	DENTIT	Y	(Important: DO NOT comp	plete th	is section if you co	ompleted Section 2 below.)		
1.1	<u> </u>	portant Enter only one num	ber exactly as it	арреаг	rs on the Section 313 list. Enter category code	e if reporti	ng a chemical category )			
	000115071									
1.2	Toxic Chemical o		(Important Enter	only o	one name exactly as it appears on the Section	313 list )				
1.3	Generic Chemical	neric Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)								
	NA	XTURE COMPO	MENT IDE	ENITI	ITV (Investory) DO NOT come	-1-4- 45	in anation of the con-	and the desired of the same of		
<u> </u>	· · · · · · · · · · · · · · · · · · ·							empleted Section 1 above.)		
2.1	<del></del>	l Name Provided by Suppli	er (Important: Ma	ximum	of 70 characters, including numbers, letters, s	spaces, an	d punctuation )			
	NA	· · · · · · · · · · · · · · · · · · ·	<del> </del>		<u>.                                    </u>					
SEC	SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.)									
3.1	Manufacti	ure the toxic che	mical	3.2	Process the toxic chemical	1	3.3 Otherwise	use the toxic chemical		
a.	Produ	ıce b Im	port							
	If prod	duce or import								
c.	For o	n-site use/processing	3	a.	As a reactant		a. As a che	mical processing aid		
d.	For sa	ale/distribution		b.	As a formulation component	1	b. As a mar	As a manufacturing aid		
е	Asal	oyproduct		C.	As an article component	İ	c. Ancillary	Ancillary or other use		
f.	As an	impurity	}	d.	X Repackaging					
SEC	TION 4. M	AXIMUM AMOU	NT OF TH	E TO	OXIC CHEMICAL ONSITE A	TANY	TIME DURING	THE CALENDAR YEAR		
4.1	03	(Enter two-d	ligit code fr	om	instruction package)	, C				
SEC	TION 5. QI	JANTITY OF TH	E TOXIC	CHE	MICAL ENTERING EACH E	NVIR	ONMENTAL ME	DIUM ONSITE		
					A. Total Release (pounds/year) B. Basis of Estimate (Enter range code or estimate*) (enter code)			C. % From Stormwater		
5.1	Fugitive or n		NA [		2200		0			
5.2	Stack or poil		NA x	]	NA					
5.3		to receiving streams s (enter one name pe				- 13 4 5 1 1 13 4 5 1 4				
	Stream or	Water Body Nai	ne	十			- 18 NY - 18 N	The state of the second		
5.3.1	NA									
5.3.2								,		
5.3.3				$\neg$						
5.4.1	Underground to Class I We	Injection onsite	NA X		NA					
5.4.2	Underground to Class II-V	Injection onsite Wells	NA x		NA					
		of Part II, Section 5 rt II, Section 5.3 pag			box. 1 (example: 1,2,3, e		box 1	DICE 01089		
		, ,								

# EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number	
NEW F-ACILI-TY123	
Toxic Chemical, Category or Generic Name	
PROPYLENE	

								PR	OPYL	ENE			
SECTIO	N 5. QUANTITY O	F THE TOXIC	CHEMIC	AL EN	TERIN	G EACH	ENVIR	ONME	NTA	L MEI	DIUM C	NSITI	(Continued)
		NA	A. Total	Release		s/year) (ente or estimate)		(en	er co				
5.5.	Disposal to land onsite												
5.5.1A	RCRA Subtitle C landf	ills X	NA							·			
5.5.1B	Other landfills	X	NA										
5.5.2	Land treatment/application	ation X	NA										
5.5.3	Surface Impoundment	X	NA										
5.5.4	Other disposal	X	NA										
SECTIO	ON 6. TRANSFERS	OF THE TOX	IC CHE	MICAL I	N WAS	STES TO	OFF-S	TE LC	CA	TIONS	,		
6.1 DIS	CHARGES TO PU	BLICLY OWN	D TREA	ATMEN	T WOF	RKS (POT	Ws)						
6.1.A To	otal Quantity Transfe	erred to POTWs	and Bas	sis of Es	timate								<del></del>
	Total Transfers (por				6.1.	A.2 Basis		nate					
	(enter range code* of	r estimate)				(enter	code)						
	NA							_					
6.1.B.1	POTW Name	NA											
POTW A	ddress									<del> ·</del>			
City				State		County						Zıp	-
6 1.B.2	POTW Name			<del></del>	I	-L		<del> </del>					l
POTW A	ddress		<del>,</del>			· · · · · · · · · · · · · · · · · · ·							
City		<u> </u>		State		County	·—					Zıp	
If additio	onal pages of Part II, Se	ection 6.1 are atta	ched, ind	icate the	total nu	mber of pa	ges			•			
in this bo	ox 1 and indicate	e the Part II, Secti	on 6.1 pa	ge numbe	er in thi	s box	1 (e:	kample.	1,2,	3, etc )			
SECTIO	ON 6.2 TRANSFER	S TO OTHER	OFF-SIT	E LOC	ATION	S							
6.2. <u>1</u>	Off-Site EPA Identifi	cation Number (	RCRA ID	No)		NA							
Off-Site L	ocation Name NA	4											
Off-Site A	Address												
City	·		State	С	ounty							Zip	
Is location	n under control of report	ing facility or parer	nt company	y?						Yes			No

**DICE 01090** 

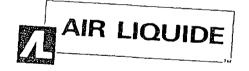


9756 SANTA FE SPRINGS ROAD SANTA FE SPRINGS, CA 90670 EPCRA Reporting Center 2/0 Compater Bosed Systems, Inc. Soute 300 4600 North Foirfax Drive Arlington, VA 22203

First Class

responding to

703-816-4445



9756 SANTA FE SPRINGS ROAD SANTA FE SPRINGS, CA 90670

Mr. Stephen Honna California Environmental Rotection Agney Department of Toxics Substance Controls P.O. Box 806 Socromento, CA 95812-0806

First Class

DICE 01091

**斯·斯克斯斯** 

5260	FORE	- RECEIPT Y: No Insurance Co LA Repen	overage Pro	videa)	5253	U.S. Postal Serv CERTIFIED M (Domestic Mail Article Sent To: 5 Lephen	//시(백) 라크어크(의 義德	e Coverage Provided)
2699	Postage \$ Centified Fee				2699	Postage Certified Fee	\$	
0.00 0:	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees	918	Postmark Here		0.000 0	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees	\$ 298	Postmark Here
709	Name (Please Print Clearly) (1 Street, Apt No; or PO Box No City, State, ZIP+ 4 PS Form 3800, July 1999	. 7			35E 8607	Street, Apt. No.; or #0		y mailer) See Reverse for Instructions
1		Heturn Receipt		6710-8-76-3635 		7	594 (1185 mor 29	· Is y
	іпапк уоц	. pejsenbej ji kluo		esserbbA .8 si eet bns		A Reporting Cem Wame) 10x 3348 Mila (VA P22116	5. Received BMARE	our <u>RETUAN</u>
	ou for using meturn	,	bd Mail Seipt for Mercha	4b. Service Depistere Express	10.	ed Systems, Inc. Drive 3	EPCRA Reporting 6 C/O Computer Bas Sunte 300 Admington, Va 22203 Admington, Va 22203 703-816-4445	your <u>RETURN ADDR</u> F3S completed
	Hecelpt aet Mice.	itessee's Address sincted Delivery transier for fee.	extra fee); 1.	е доев по! е питрек	n the back if spac	on the reverse of the cereit of the reverse or or or or or or or or or or or or or	Phiri your name and addressed to the five you.     Markech this form to the five your.     Markech this form to the five your Pecupit Will while 'Return Receipt Will adinated.     Article Addressed to the five your periods.	on the reverse
	· :	orteceive the ryices (for an			•,	r 2 for additional services	SENDER: Complete items 1 and/or Complete items 3, 4s, si	side?

- ;

:

† 's

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First-Class Mail Postage & Fees Paid USPS Permit No. G-10

Print your name, address, and ZIP Code in this box

AIR LIQUIDE AMERICA CORPORATION 8832 DICE ROAD SANTA FE SPRINGS, CA 90670

#### Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailplece
- A signature upon delivery
- # A record of delivery kept by the Postal Service for two years Important Reminders:
- Certified Mail may ONLY be combined with First-Class Mail or Priority Mail.
- Certified Mail is not available for any class of international mail
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail For valuables, please consider insured or Registered Mail
- For an additional fee, a Return Receipt may be requested to provide proof of delivery To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailprece with the endorsement "Restricted Delivery"
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking if a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, July 1999 (Reverse)

102595-99-M-1938

#### Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A signature upon delivery
- # A record of delivery kept by the Postal Service for two years

#### Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail or Priority Mail
- Certified Mail is not available for any class of international mail
- INO INSURANCE COVERAGE IS PROVIDED with Certified Mail For valuables, please consider Insured or Registered Mail.
- For an additional tee, a Return Receipt may be requested to provide proof of delivery To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is
- For an additional tee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery"
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Centified Mail receipt is not needed, detach and affix label with postage and mail

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, July 1999 (Reverse)

102595-99-M-1938

DICE 01093

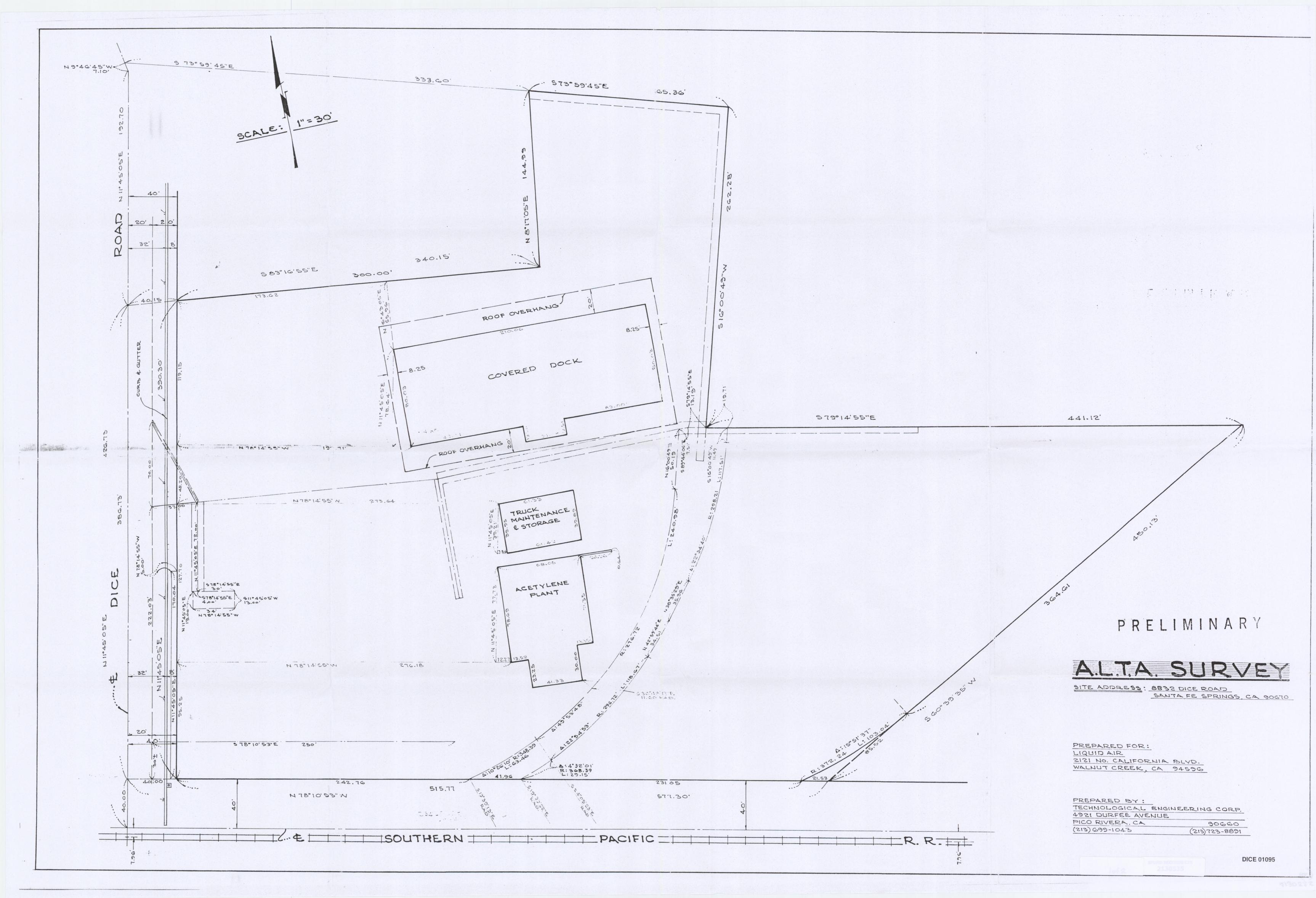
					Page 5 of 5						
	EPA	FORM R		TRI Facility ID Number							
P	ART II. CHEMICAL-SPECI	FIC INFORMATI	ON (CONTINUED)								
			-	Toxic Chemical, Catego	ory or Generic Name						
SEC	TION 7B. ON-SITE ENERGY R	ECOVERY PROCE	SSES	·							
	' Nal Applicable (NA) -	re if no on-site energy reconntaining the toxic chemical	very is applied to any waste or chemical catagory.								
E	nergy Recovery Methods (anter 3-charact	er code(s)]	· · · · · · · · · · · · · · · · · · ·								
1 [	2	3		4	]						
SEC	TION 7C. ON-SITE RECYCLING	PROCESSES									
V	Not Applicable (NA) - Chack here if	no on-site recycling is appli Ining the toxic chamical or									
F	tecycling Methods [enter 3-Lineractor code										
1.	1. 2. 3. 4. 5.										
e	7. B. 9. 10.										
SECT	TION B. SOURCE REDUCTION	AND RECYCLING	ACTIVITIES								
		Column A	Column B	Column C	Column D						
	Prior Year Current Reporting Year Following Year Second Following Year (pounds/year) (pounds/year) (pounds/year)										
8.1	Quantity released ***	NIA	NIA								
8.2	Quantily used for energy recovery phalts	0	0	NIA	NIA						
H.3	Quantity used for energy recuvery offsite	0	0	NIA	NIA						
8.4	Quantily recycled onsile	0	O	NIA	NIA						
8.5	Quantily recycled offsite	0	0	NIA	NIA						
8.8	Quantity treated onsite	0	D	NIA	NIA						
B.7	Quantity treated offsite	0	Ū.	NIA	NIX						
6.8	Quantily released to the environment as catestrophic events, or one-time events of processes (pounds/year)	result of remedial actions of associated with producti	on	Ö							
B.8	Production ratio or activity index			0							
9.40	Did your facility engage in any source recenter "NA" in Section 8.10.1 and answer	luction activities for this cha Section 8.11.	amical during the reporting year	r? If not,							
8.10	Source Reduction Activities [enter code(s)]	Ме	thods to Identify Activity (enter	codes)							
8.10.1	W 25	a. T11	b.	C.							
B.10.2	W 58	a.	ь.	C.							
8.10.3	W 89	a.	b.	С.							
8.10.4		a.	ь.	c.							
8.11	is additional information on source reduct included with this report ? (Check one bo		control activities		YES NO						

EPA Form 9350-1 (Rev. 01/2001) - Previous editions are obsolete.

\* For Diaxin or Diaxin-like compounds, report in grams/year

Reput teleases pursuant to ETCRA Section 328(8) Including "any spilling, leaking, pumping, pouring, emitting, discharging, injecting, ascaping, leaching, dumping, or disposing into the onvironment." Do not include any quantity treated untitle.

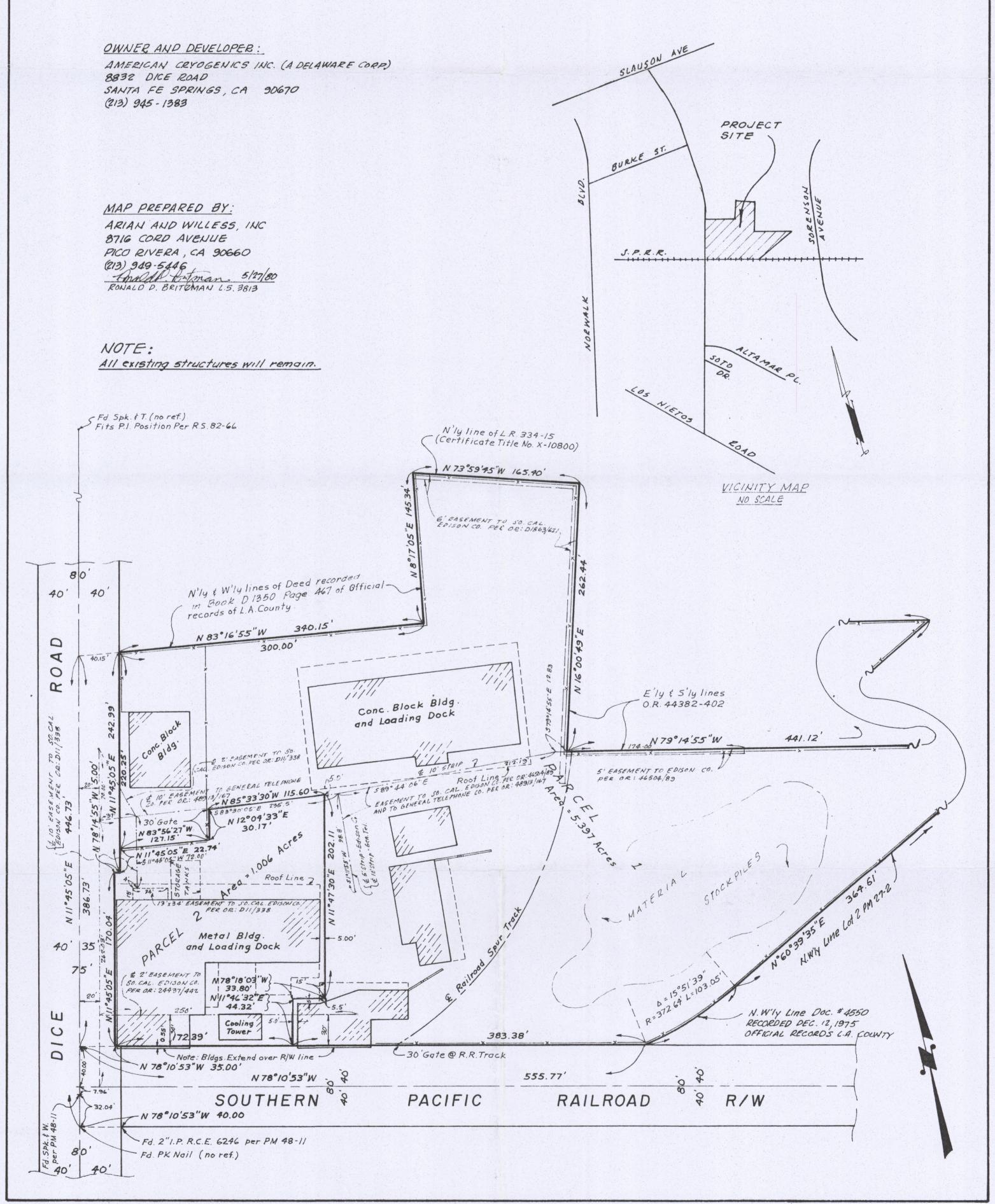
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# PARCEL MAP NO. 13513

IN THE CITY OF SANTA FE SPRINGS COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

BEING A SUBDIVISION OF A PORTION OF THE COLIMATRACT IN THE RANCHO SANTA GERTRUPES AS SHOWN ON CLERK'S FILED MAP NO. 157 ENTERED IN SUPERIOR COURT CASE NO. 4367 AND FILED IN THE OFFICE OF THE COUNTY ENGINEER OF LOS ANGELES COUNTY.



he mila tory

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

					Page 1 of 42
BUSINESS NAME (Same as		I. FACILITY I	NFORMATION		
AIR LIQUIDE CORE	OHATION AMERIC			CHEMICAL LOCATION CONFIDENTIAL -	ON ☐ Yes 🗹 No
FACILITY ID# 1 9	0 4 9 6 0 0	0 9 4 MAP# (optional)	GRID#	(optional) B4 (#39), C1	
		II. CHEMICAL	INFORMATION		
CHEMICAL NAME CO	MPRESSED AIR			TRADE SECRET	Yes V No
COMMON NAME CO	MPRESSED AIR			EHS*	Yes No
CAS#		· · · · ·	•	la. :	nounts below must be in
FIRE CODE HAZARD CLAS		CUPA)		ilbs	
HAZARDOUS MATERIAL TYPE (Check one item only)	PURE 6	MIXTURE WASTE	RADIOACTIVE	Yes No CURIES	
PHYSICAL STATE (Check one item only)	SOL!D	LIQUID GAS	LARGEST CONTAINER 100,000		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive Pressure		Chronic Health	
AVERAGE DAILY AMOUNT	150000	XIMUM DAILY IOUNT 150000	ANNUAL WASTE	O STATE WA	ASTE
UNITS* (Check one item only)	☐ GALLONS	✓ CUBIC FEET	POUNDS TONS	DAYS ON SITE	365
Storage Container (Check all that apply)	Aboveground Tank Underground Tank Tank Inside Buildin Steel Drum	Can	Bag Plastı Box Tote	Bottle	г
STORAGE PRESSURE	a AMBIENT	✓ b ABOVE AMBIENT	c BELOW AMBIENT		
STORAGE TEMPERATURI	E ✓ a AMBIENT	b ABOVE AMBIENT	c BELOW AMBIENT	d CRYOGENIC	
% WT	TO The said of the control of the co	COMPONENT (For mixture o		The second of	CAS#
2		-		es ☑ No 	
3			· · · · · · · · · · · · · · · · · · ·	es 🗸 No	
4			·	es 🔽 No	
5				es 🗹 No	
if more hazardous components are	e present at greater than 1% by we	eight if non-carcinogenic, or 0.1% by weight if	carcinogenic, attach additional sheets of paper		
ADDITIONAL LOCALLY COL	LECTED INFORMATION				
1					
				If EPCRA Pleas	se Sinn Here

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

							Page 2 of 42
BUNNEZ			I. FACILITY IN	FORMATION	NA.		
BUSINESS NAME (Same as	FACILITY NAME or DBA	- Doing Business As)		ou of and Millioude out to a	- A. A. A. A. A. A. A. A. A. A. A. A. A.	is To the same of the common of the	And the second
	PORATION AMERIC				-	1.5	
CHEMICAL LOCATION						CHEMICAL LOCATIO CONFIDENTIAL - EPCRA	Yes 🗸 No
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4 🖼	MAP# (optional)		GRID# (optiona	B2, E1, H4	
	general was de gestjoeder die de de de de de de de de de de de de de		II. CHEMICAL II	NFORMATION			
CHEMICAL NAME			Err Sillensen fra	Marine Committee of the	- '' '	TRADE SECRET	☐ Yes 🗸 No
i	GON GAS					If Subject o EPC	CRA, refer to instructions
COMMON NAME	GON GAS					EHS*	Yes 🗸 No
CAS#						*If EHS is "Yes", all amo	ounts helow must he in
	10-37-1					lbs.	
FIRE CODE HAZARD CLAS	SES (Complete if require	by CUPA)				F 9 1 2 2 2 2 2 2 2 2 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 St. 1 4 D. 17
luano con con esta de la constanta de la const				·		1	
HAZARDOUS MATERIAL TYPE (Check one item only)	✔ PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	✓ No CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINI	ER		
FED HAZARD CATEGORIES (Check all that apply)	S Fire	Reactive	✓ Pressure R		e Health	Chronic Health	
AVERAGE DAILY AMOUNT	200000	MAXIMUM DAILY AMOUNT	200000	ANNUAL WASTE AMOUNT	0	STATE WAS	STE
!UNITS*  (Check one item only)	GALLONS	✓ CUBIC	FEET PO	DUNDS 🔲	FONS	DAYS ON SITE	365
Storage Container (Check all that apply)	Aboveground T	ank 🔲 Plastic	/Nonmetallic Dru	Fiber Drum	Glass Bottle	Rail Car	
teneck all that apply)	Underground Ta			Bag	Plastic Bottle	e 🗌 Other	
7 1 1	Tank Inside Buil	=	<i>,</i>	Box	Tote Bin		
	Steel Drum	∐ S₁lo		✓ Cylinder	Tank Wagor	1	
STORAGE PRESSURE	a AMBIENT	✓ b ABOV	E AMBIENT	c BELOW AMBIENT	r		
STORAGE TEMPERATURE	a AMBIENT	b ABOV	E AMBIENT	c BELOW AMBIENT	d	CRYOGENIC	
% WT	HAZARDO	OUS COMPONEN	(For mixture or	waste only)	EHS		CAS#
1 100.00% AR	GON	Transmit is the set of	3.2.4	Secretary of the second	Yes 🗸	No 7440-37-1	
2					☐ Yes 🗸	No.	
3							
		-			Yes 🗸	N0 	
-					Yes 🗸	No	
5					☐ Yes 🗸	No	
If more hazardous components are	A STATE OF THE STA		nic, or 0.1% by weight if ca	arcinogenic, attach additional she	ets of paper capturing t	he required information	
ADDITIONAL LOCALLY COL	LECTED INFORMATION	l			•		
i							

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#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

		Page 3 of 42
	I. FACILITY INFORMATION	
BUSINESS NAME (Same as	FACILITY NAME or DBA - Doing Business As)	and the second of the second o
AIR LIQUIDE CORP	DRATION AMERIC	
CHEMICAL LOCATION		CHEMICAL LOCATION  CONFIDENTIAL - Yes No.
		EPCRA Yes ✓ No
FACILITY ID# 1 9	O 4 9 6 O O O 9 4 MAP# (optional)	E6, E7
	II. CHEMICAL INFORMATION	
CHEMICAL NAME		TRADE SECRET Yes V No
	ON REFRIGERATED LIQUID	TRADE SECRET
COMMON NAME		EHS*
1	ON REFRIGERATED LIQUID	
CAS#		"If EHS is "Yes", all amounts below must be in
		bs. The state of t
FIRE CODE HAZARD CLASS	ES (Complete if required by CUPA)	
HAZARDOUS MATERIAL		CURIES
TYPE (Check one item only)	✓ PURE MIXTURE WASTE RADIOACTIVE Yes	✓ No
PHYSICAL STATE (Check one item only)	☐ SOLID ☐ GAS LIQUID ☐ GAS LARGEST CONTAINER 48000	
FED HAZARD CATEGORIES		7 0
(Check all that apply)	☐ Fire ☐ Reactive ✔ Pressure Release ☐ Acute Health ☐	Chronic Health
AVERAGE DAILY AMOUNT	48000 MAXIMUM DAILY 48000 ANNUAL WASTE O AMOUNT O	STATE WASTE
UNITS* (Check one item only)	✓ GALLONS ☐ CUBIC FEET ☐ POUNDS ☐ TONS	DAYS ON SITE 365
Storage Container (Check all that apply)	✓ Aboveground Tank ☐ Plastic/Nonmetallic Dru ☐ Fiber Drum ☐ Glass Bottle	Rail Car
(Check all that apply)	Underground Tank Can Bag Plastic Bottle	Other
	Tank Inside Buildin Carboy Box Tote Bin	
	Steel Drum Silo Cylinder Tank Wagon	
STORAGE PRESSURE	a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT	
STORAGE TEMPERATURE	☐ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT ☑ d C	RYOGENIC
% WT	HAZARDOUS COMPONENT (For mixture or waste only)	CAS#
1 99 90% AR	GON Yes 🗸	No 7440-37-1
2	☐ Yes <b>✓</b>	 No
3		
		No 
4	☐ Yes 🗹 U	No
5	☐ Yes 🗹 I	No .
i If more hazardous components are	present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the	e required information
ADDITIONAL LOCALLY COL		
1		
i F		
! !		If EPCRA, Please Sign Here

### **HAZARDOUS MATERIALS INVENTORY**

#### HAZARDOUS MATERIALS

#### - CHEMICAL DESCRIPTION

							Page 4 01 42
BUSINESS NAME (Same as FA		ing Business As)	I. FACILITY INFO	RMATION			
CHEMICAL LOCATION	HATION AMERIC					CHEMICAL LOCA CONFIDENTIAL - EPCRA	TION  ☐ Yes ✓ No
FACILITY ID# 1 9 0	496000	) 9 4 MA	P# (optional)	ORMATION	GRID# (optional	L	∏ Yes <b>V</b> No
· ·	BON DIOXIDE GAS				i		EPCRA, refer to instructions
COMMON NAME CARE	BON DIOXIDE GAS					EHS*	Yes V No
124-3	38-9					*If EHS is "Yes", all a lbs	amounts below must be in
FIRE CODE HAZARD CLASSE	S (Complete if required by (	CUPA)					
HAZARDOUS MATERIAL TYPE (Check one item only)	 ✓ PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	No CURIES	
PHYSICAL STATE (Check one item only)	SOLID	] LIQUID	<b>✓</b> GAS	LARGEST CONTAINE 50	ER		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure Rele	ease	e Health [	Chronic Healt	h
AVERAGE DAILY AMOUNT UNITS* (Check one item only)		(IMUM DAILY DUNT CUBIC FEI	17000 ET <b>☑</b> POUI	ANNUAL WASTE AMOUNT	O	STATE V CODE DAYS OF SITE	0
Storage Container (Check all that apply)  STORAGE PRESSURE	Aboveground Tank Underground Tank Tank Inside Buildin Steel Drum	Plastic/N Can Carboy Silo	onmetallic Dru	Fiber Drum Bag Box Cylinder c BELOW AMBIENT	Glass Bottle Plastic Bottle Tote Bin Tank Wagon	Rail C	
STORAGE TEMPERATURE	a AMBIENT	b ABOVE	AMBIENT F	c BELOW AMBIENT		 CRYOGENIC	
% WT  1 CO2  2  3  4  5  If more hazardous components are postponents are postponents.	resent at greater than 1% by wee		For mixture or we		Yes V Yes V Yes V Yes V Yes V ets of paper capturing tr	No No No	*CAS#

### **HAZARDOUS MATERIALS INVENTORY**

#### **HAZARDOUS MATERIALS**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

						Page 5 of 42
The second second		I. FACILITY INF	ORMATION		State State of	
BUSINESS NAME (Sar	e as FACILITY NAME or DBA - Doing Busine	. 1847 (12 12 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15		id ik bekenik		المكسد الما المسلسلة المالية المتعارض
	ORPORATION AMERIC	,				
CHEMICAL LOCATION					CHEMICAL LOCATION	<b>v</b>
					CONFIDENTIAL - EPCRA	Yes V No
FACILITY ID# 1 9	0 4 9 6 0 0 0 9 4	MAP# (optional) 1		GRID# (optional)	E3 (#60)	
		II. CHEMICAL IN	FORMATION			
CHEMICAL NAME	CARBON MONOXIDE				TRADE SECRET If Subject o EPC	Yes V No RA, refer to instructions
COMMON NAME	CARBON MONOXIDE		-		EHS*	☐ Yes 🗸 No
CAS#	630-08-0			la.	If EHS is "Yes", all amo	unts below must be in
FIRE CODE HAZARD	LASSES (Complete if required by CUPA)					
!	FG				1.7	
HAZARDOUS MATERI TYPE (Check one item	1 DUDE LIMITUR	₩ WASTE	RADIOACTIVE	☐ Yes •	No CURIES	,
PHYSICAL STATE (Check one item only)	SOLID LIQUID	<b>✓</b> GAS	LARGEST CONTAINER 175			:
FED HAZARD CATEGO (Check all that apply)	RIES Fire Reactiv	e Pressure Re	lease 🗹 Acute H	ealth 🔽	Chronic Health	
AVERAGE DAILY AMOUNT	6000 MAXIMUM DA AMOUNT	LY 10000	ANNUAL WASTE	0	STATE WAS	O :
:UNITS* i(Check one item only)	<u> </u>	UBIC FEET PO	UNDS TON	IS	DAYS ON SITE	365
Storage Container	Aboveground Tank	astic/Nonmetallic Dru	Fiber Drum	- Glass Bottle	Rail Car	
(Check all that app	v)	an	Bag	Plastic Bottle	Other	
	Tank Inside Buildin C	arboy	Box	Tote Bin		
i	Steel Drum S	io	<b>✓</b> Cylinder	Tank Wagon		
STORAGE PRESSUR	a AMBIENT 📝 b	ABOVE AMBIENT	C BELOW AMBIENT			
STORAGE TEMPERA	TURE 📝 a AMBIENT 🗌 b.	ABOVE AMBIENT	C BELOW AMBIENT	☐ d Ci	RYOGENIC	
% WT	HAZARDOUS COMPO	NENT (For mixture or v	vaste only)	<b>EHS</b>	(	CAS#
1 99 90%	CARBON MONOXIDE			☐ Yes 🔽 N	63008-0	
2				☐ Yes 🗹 N	40	
3				☐ Yes 🗸 N	4o	
4	 		-	☐ Yes 🗸 N	- · - 10	
5				Yes V	lo	
i If more hazardous compone	i its are present at greater than 1% by weight if non-car	cinogenic, or 0.1% by weight if car	rcinogenic, attach additional sheets			
ADDITIONAL LOCALLY	COLLECTED INFORMATION	-				
1						
, I						:
  -  -						
<u> </u>						

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#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

							Page 6 of 42
BUSINESS NAME (Same as	FACILITY NAME or DBA	A - Doing Business As)	I. FACILITY IN	FORMATION	Záve Tik		
AIR LIQUIDE CORP	ORATION AMERIC						
CHEMICAL LOCATION						CHEMICAL LO CONFIDENTIA EPCRA	
FACILITY ID# 1 9	0 4 9 6 6 0	0 0 9 4	MAP# (optional)		GRID# (optional)	B4 (#41)	
H-967/865-X-15-X-15-X-15-X-15-X-15-X-15-X-15-X-			II. CHEMICAL I	NFORMATION			
CHEMICAL NAME		The second second		naistilli 1435		TRADE SECRE	ET ☐ Yes ✔ No
HEL	IUM LIQUID				İ		t o EPCRA, refer to instruction
COMMON NAME HEL	IUM LIQUID	<u>-</u>		······		EHS*	Yes V No
CAS# 744	.0-59-7				- · · · ·	'If EHS is "Yes" bs	all amounts below must be in
FIRE CODE HAZARD CLASS	SES (Complete if require	d by CUPA)				30 18 40	i di di di seris
HAZARDOUS MATERIAL TYPE (Check one item only)	 PURE	MIXTURE	WASTE	RADIOACTIVE	☐ Yes ﴿	✓ No CUR	IÉS
PHYSICAL STATE (Check one item only)	SOLID	✓ LIQUID	GAS	LARGEST CONTAIN	ER		
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure Re	elease Acut	e Health	] Chronic He	ealth
AVERAGE DAILY AMOUNT	13000	MAXIMUM DAILY AMOUNT	13000	ANNUAL WASTE AMOUNT	0	STAT	TE WASTE O
UNITS*  (Check one item only)	<b>✓</b> GALLONS	CUBIC	FEET PO	DUNDS	TONS	DAY	
Storage Container (Check all that apply)	☐ Aboveground T☐ Underground T☐ ☐ Tank Inside Bui	ank 🗌 Can	/Nonmetallic Dru	☐ Fiber Drum ☐ Bag ☐ Box	☐ Glass Bottle ☐ Plastic Bottle ☐ Tote Bin		ıl Car her
	Steel Drum	Silo	<i>(</i>	Cylinder	✓ Tank Wagon		
STORAGE PRESSURE	a AMBIENT		E AMBIENT	c BELOW AMBIEN			
. STORAGE TEMPERATURE	a AMBIENT	☐ b ABOV	E AMBIENT	c BELOW AMBIEN	τ <b>⊘</b> d C	RYOGENIC	
% WT	HAZARD	OUS COMPONEN	「(For mixture or v	waste only)	T. EHS	2. 1. 6. 6.	CAS#
1 LIQ	UID HELIUM	to a make the state of the triple describes in	wante was a set of the set of	and assume and observed the confidence and the same	☐ Yes 🗹 I	Vo	Service Services ( )
2		-	<u> </u>				
3					·		
	•				Yes ✔ I	No 	
4					🗌 Yes 🗸	No	
5	-			•-	Yes 🗸 I	No	
! !If more hazardous components are	present at greater than 1%	by weight if non-carcinogei	nic, or 0.1% by weight if ca	rcinogenic, attach additional shi			ion
ADDITIONAL LOCALLY COL						,	

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

								Page / of 42
				I. FACILITY I	NFORMATION			
BUSINESS NAME (Sa	me as FA	CILITY NAME or DB	A - Doing Busine	ess As)	الفكة الأفاصل على من مسلمية والمواقعة الأنافية والأنافية والأنافية والأنافية والمالية والمسابقة والم		Latter in 200 March & 200 (1906) Salvino	and the second of the second o
1		RATION AMERIC						
CHEMICAL LOCATION	N						CHEMICAL LOCATION	
							CONFIDENTIAL - EPCRA	☐ Yes 🗸 No
FACILITY ID# 1 9	ا ۱۳۱۸	4 9 6 0	00014	MAP# (optional)		GRID# (optional		
		4 9 . 0 0	0 0 9 4	\$	INECONSATION	Control (Control of the Control of t	B4 (#42), C1,	radimo na basali. El
				II. CHEMICAL	INFORMATION		46. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	
CHEMICAL NAME	HELIUI	M GAS					TRADE SECRET	Yes V No
COMMON NAME								CRA, refer to instructions
	HELIUI	M GAS					EHS*	Yes 🗸 No
CAS#							If EHS is "Yes", all amo	ounts below must be in
	7440-	59-7					lbs 1	
FIRE CODE HAZARD	CLASSES	Complete if require	ed by CUPA)					
							. loupies	
HAZARDOUS MATER TYPE (Check one item		✓ PURE	☐ MIXTUF	RE WASTE	RADIOACTIVE	☐ Yes	✓ No CURIES	
PHYSICAL STATE					LARGEST CONTAIN			
(Check one item only)		SOLID	LIQUID	<b>✓</b> GAS	200000	Lit		
FED HAZARD CATEG	ORIES			[A] o		·· -	-	
(Check all that apply)	_	Fire	Reacti	ve Pressure	Release	te Health [	Chronic Health	
AVERAGE DAILY		0	MAXIMUM DA	4JLY 60000	ANNUAL WASTE	0	STATE WAS	STE O
AMOUNT UNITS*		-	AMOUNT		AMOUNT		CODE DAYS ON	Ů
(Check one item only)		GALLONS		CUBIC FEET F	POUNDS	TONS	SITE	365
Storage Container		Aboveground T	fank 🗍 f	lastic/Nonmetallic Dru	u Fiber Drum	Glass Bottle	Rail Car	
(Check all that app	ply)	Underground T		Can	Bag	Plastic Bottle	Other	
		] Tank Inside Bu	ıldın 🔲 (	Carboy	☐ Box	Tote Bin		
		Steel Drum	□ :	Silo	Cylinder	☐ Tank Wagon		
STORAGE PRESSUF	RE	a AMBIENT	ſ <b>V</b> b	ABOVE AMBIENT	C BELOW AMBIEN	T		
· · · · · · · · · · · · · · · · · · ·				<del></del>				
STORAGE TEMPERA	ATURE	✓ a AMBIENT	Г <u></u> ы	ABOVE AMBIENT	C BELOW AMBIEN	ıt 🗌 d (	CRYOGENIC	
% WT		HAZÁRD	OUS COMP	NENT (For mixture or	r waste only),	* * EHS	· 1 * 1 ( ) · ( ) · ( ) · ( )	CAS#
1 99 90%	HELIU	JM	ا الدينية المكاسسة (). ا	and harden and a milestra		Yes 🔽	No. 7440-59-7	Parameter of the first term
	. 1 .			***		Yes _ <b>✓</b>	No	
3						☐ Yes 🗸	No	
4					<del>-</del> •	☐ Yes 🔽	 No	
5	,							
İ			k			☐ Yes ☑		
if more nazardous compon ADDITIONAL LOCALL				arcinogenic, or U 1% by weight if	carcinogenic, attach additional st	neets of paper capturing the	e required information	
ADDITIONAL LOCALL	. OULLE	CIED INFORMATIO	44					

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#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

							Page 8 of 42
		San Company and Contract.	I. FACILITY INF	ORMATION	erveren vog grendigt. Nachalakka		
BUSINESS NAME (Same as FA		- Doing Business As)	فراه کنانده می در شمیروری پیران		S. SEPS-EN 12 Zambe		basa/million
AIR LIQUIDE CORPOI	RATION AMERIC					OUEL HOLD LOCATI	O.1.
CHEMICAL LOCATION						CHEMICAL LOCATION CONFIDENTIAL - EPCRA	Yes 🗹 No
FACILITY ID# 1 9 0	4 9 6 0 0	0 0 9 4 F 8 M	AP# (optional)	•	GRID# (optional		
		taken and a second or second to be a part of the second or	II. CHEMICAL IN	IFORMATION	AF COM		
CHEMICAL NAME	Ta All III in .		The state of the s	93-1 <u>ల్</u> లిమైట్లో () ()	ر از المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم	TRADE SECRET	☐ Yes 🗸 No
ļ	OGEN GAS						CRA, refer to instruction
COMMON NAME HYDR	OGEN GAS					EHS*	Yes 🗌 No
CAS#						*If EHS is "Yes" all an	mounts below must be in
1333-	74-0					lbs " " " « š	
FIRE CODE HAZARD CLASSE	S (Complete if required	i by CUPA)			•		
FG HAZARDOUS MATERIAL				-,		CURIES	
TYPE (Check one item only)	✔ PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	No CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINE 120000 CF	R		
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	✓ Pressure Re		Health [	Chronic Health	
AVERAGE DAILY AMOUNT		MAXIMUM DAILY AMOUNT	1560	ANNUAL WASTE AMOUNT	0	STATE WA	ASTE O
UNITS* (Check one item only)	☐ GALLONS	CUBIC F	EET 📝 PO	UNDS T	ONS	DAYS ON SITE	365
Storage Container	Aboveground Ta	ank Plastic/	Nonmetallic Dru	Fiber Drum	Glass Bottle	Rail Ca	ır
(Check all that apply)	Underground Ta			Bag	 ☐ Plastic Bottle		
	Tank Inside Buil			Вох	Tote Bin		
<u></u>	Steel Drum	Silo		<b>∠</b> Cylinder	Tank Wagon		
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOVE	AMBIENT	C BELOW AMBIENT			
STORAGE TEMPERATURE	<b>✓</b> a AMBIENT	b ABOVE	AMBIENT	C BELOW AMBIENT	d (	CRYOGENIC	
% WT	HAZARDO	US COMPONENT		vaste only)	EHS	3 , 60	CAS#
1 99.90% HYDF	ROGEN	The second secon	W. 1	1 2 - 447 - 2 -		No 1333-74-0	
2	-				Yes 🗸	No .	
3		-			Yes 🗸	w.	
4							
5					Yes 🗸		
If more hazardous components are pro		52			☐ Yes 🗹		
ADDITIONAL LOCALLY COLLE			c, or 0.1% by weight if car	rcinogenic, attach additional shee	ets of paper capturing th	ie required information	
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1							

### **HAZARDOUS MATERIALS INVENTORY**

#### **HAZARDOUS MATERIALS**

#### - CHEMICAL DESCRIPTION

								Page 9	9 of 42
BUSINESS NAME (Same as FA		oing Business As)	I. FACILITY INF	ORMATION	Allen and Salah Sa				((************************************
AIR LIQUIDE CORPOR	RATION AMERIC					CHEMICAL CONFIDEN EPCRA		] Yes [	<b>✓</b> No
FACILITY ID# 1 9 0	4 9 6 0 0	0 9 4 M	AP# (optional)	FORMATION	GRID# (optiona	E2, E3			
CHEMICAL NAME METH	ANE	in a super grand to consider a finisher superior his 2nd	and the same of th	,	Samuel Salam Bar in Farman Sarah Bar Salam Bar in	TRADE SE	CRET		✓ No instructions
COMMON NAME METH	ANE			,		EHS*	V	] Yes [	□ No
CAS# 74-82						*If EHS is "Y lbs	es", all amounts	below n	nust be in
FIRE CODE HAZARD CLASSE FG	S (Complete if required by	(CUPA)							
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>⊘</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	✓ No	URIES		. '
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN 335	NER		•		
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	Pressure Re	lease 🗌 Acu	te Health	<b>✓</b> Chronic			
AVERAGE DAILY AMOUNT		AXIMUM DAILY MOUNT	10000	ANNUAL WASTE AMOUNT	0	İC	TATE WASTE ODE		-
UNITS* (Check one item only)	GALLONS	CUBIC FE	ET PO	UNDS	TONS		AYS ON ITE	365	
Storage Container (Check all that apply)	] Aboveground Tan ] Underground Tank ] Tank Inside Buildii ] Steel Drum	. Can	Nonmetallic Dru	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	Glass Bottle Plastic Bottl Tote Bin Tank Wagor	e 🗌	Rail Car Other.		
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOVE	AMBIENT	C BELOW AMBIEN	<u> </u>				
STORAGE TEMPERATURE	a AMBIENT	b ABOVE	AMBIENT	c BELOW AMBIEN	IT d	CRYOGENIC			
1 99 90% METH 2 3 4 5   If more hazardous components are price ADDITIONAL LOCALLY COLLE	1ANE	Niverally se	(For mixture or v		Yes V	No No	-8	#	
) !						If EPC	RA, Please Sigr	ı Here	

#### HAZARDOUS MATERIALS

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

			:	I. FA	CILITY INF	ORMATION					TY ).	T, 1777
BUSINESS NAME (Same			- Doing Busin	ess As)	Maraya Lair		المنطقة المستدادات		*	L. I. Version	unta tarika in ini	`
AIR LIQUIDE CO	RPORAT.	ION AMERIC					-	•	1 -	AL LOCATION ENTIAL -	Yes	<b>☑</b> No
FACILITY ID# 1 9	0 4	9 6 0 0	0 9 4	MAP# (or	securior and the second	FORMATION	7)4 <b>3</b> ()	GRID# (optional	C1,	E1, F1, H4,	14	
CHEMICAL NAME	NITROGEI	N GAS								SECRET Subject o EPCF		✓ No Instructions
COMMON NAME	· - NITROGEI	N GAS							EHS*		Yes	<b>√</b> No
CAS#	7727-37-	9							*If EHS is lbs	"Yes", all amor	ints below	must be in
FIRE CODE HAZARD CI	-		by CUPA)			<del></del>				- 10 10 10 10 10 10 10 10 10 10 10 10 10	1000	and the second
HAZARDOUS MATERIA TYPE (Check one item o		<b>✓</b> PURE	☐ MIXTU	RE .	WASTE	RADIOACT	IVE	Yes	<b>✓</b> No	CURIES		:
PHYSICAL STATE (Check one item only)		SOLID	LIQUID	<b>✓</b>	GAS	LARGEST CO		R	<del></del> -			'
FED HAZARD CATEGO (Check all that apply)	RIES	Fire	React	ve 🗸	Pressure Re	lease	Acute	Health	Chro	nic Health		
AVERAGE DAILY AMOUNT	300	$\wedge \wedge \wedge$	MAXIMUM D AMOUNT	AILY 3	00000	ANNUAL WA	STE	0		STATE WAS	TE O	
(Check one item only)		GALLONS	V	CUBIC FEET	POI	UNDS	П т	ONS		DAYS ON SITE	365	
Storage Container (Check all that appl	y)   U	boveground Ta nderground Ta ank Inside Buil teel Drum	nk 🔲	Plastic/Nonm Can Carboy Silo	etallic Dru	Fiber Dru Bag Box V Cylinder	[	Glass Bottle Plastic Bott Tote Bin Tank Wago	le [	Rail Car Other		
STORAGE PRESSURE		a AMBIENT	b	ABOVE AMBIE	 ENT	c BELOW A	- MBIENT					
STORAGE TEMPERAT	 URE [	✓ a AMBIENT	b	ABOVE AMBI	ENT	c BELOW A	MBIENT	d	CRYOGE	NIC .		
% WT	NITROGE	والمستدائ المتراث فروا	ŅS COMP	ONENT (For I	mixtùre or w	vaste only)		EHS ☐ Yes	No	``````````````````````````````````````	AŠ#	A CONTRACTOR
2 :		-	-					☐ Yes 🗸	No			
3 !	Ì							Yes 🗸	No			
4			-					☐ Yes 🗸	No No			
5		_							No			
If more hazardous component				arcinogenic, or 0.1	% by weight if car	cinogenic, attach add	litional she	ets of paper capturing	the required	information		
;	OOLLEGIE	D THE ORIVING TON	•									

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#### HAZARDOUS MATERIALS

#### HAZARDOUS MATERIALS INVENTORY

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

Page 11 of 42 I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) 0 0 0 9 4 II. CHEMICAL INFORMATION 经经济价值的现在分词 医克里耳氏试验的 医多次起间的 CHEMICAL NAME Yes V No TRADE SECRET NITROGEN REFRIGERATED LIQUID If Subject o EPCRA, refer to instructions COMMON NAME Yes V No LIQUID NITROGEN CAS# "If EHS is "Yes", all amounts below must be in 7727-37-9 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOUS MATERIAL CURIES ✓ PURE MIXTURE **✓** No RADIOACTIVE Yes TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER SOLID ✓ LIQUID [ GAS (Check one item only) 11000 FED HAZARD CATEGORIES Fire Reactive ✓ Pressure Release ✓ Acute Health Chronic Health (Check all that apply) AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE STATE WASTE 17000 17000 **AMOUNT TANOUNT** AMOUNT CODE :UNITS\* DAYS ON ☐ TONS **✓** GALLONS CUBIC FEET POUNDS 365 (Check one item only) SITE Storage Container Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Rail Car (Check all that apply) Underground Tank ☐ Can Bag Plastic Bottle Other Tank Inside Buildin Carboy Box Tote Bin Steel Drum Silo Tank Wagon Cylinder STORAGE PRESSURE a AMBIENT ✓ b ABOVE AMBIENT c below ambient STORAGE TEMPERATURE a AMBIENT b ABOVE AMBIENT C BELOW AMBIENT ✓ d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) EHS CAS# NITROGEN LIQUID 99 90% 7727-37-9 Yes V No Yes V No 3 Yes V No Yes 🗸 No Yes V No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

BUSINESS NAME (Sa AIR LIQUIDE					Doing Bi	ısıness As	5)												
CHEMICAL LOCATIO	-		-	=							-	•				CAL LOCAT DENTIAL -		s 🗸	No .
FACILITY ID# 1	9 8 0	0 4	9 6	0 0	0 9	4	MAP# (	optional)	1				GRID	# (option	al) D2	(#33)			
							11. C	HEMICA	AL INFO	RMATI	ON						Main		
CHEMICAL NAME	SUL	FUR H	IEXAFLUC	RIDE												SECRET Subject o E	☐ Ye PCRA, refer	to instr	
COMMON NAME	SUL	FUR H	EXAFLUC	RIDE									•		EHS*		☐ Ye	s 🗸	No
	255	1-62-4	1	-	-		•						•		If EHS is	"Yes", all a	mounts bek	w must	bè in
FIRE CODE HAZARD	CLASS	ES (Co	mplete if req	juired b	y CUPA	)									* *in in				
HAZARDOUS MATER			✓ PURE		мix	TURE		WASTE		RADIO	DACTIVE			Yes	<b>☑</b> No	CURIES			i
PHYSICAL STATE (Check one item only	)		SOLID		LIQ	UID	~	GAS		LARGE 28	ST CONT	AINER	?			-	-		ı
FED HAZARD CATE( (Check all that apply)			Fire		Rea	active	V	Pressu	re Relea	ase	<b>⊘</b> A	cute l	Health		Chro	nıc Health	า		
AVERAGE DAILY		172	50		MAXIMUN MOUNT			17250		ANNUA	L WASTE	Ē		0		STATE W	IASTE 0		
UNITS* (Check one item only)			☐ GALLO	NS		<b>Z</b> CUBIC	FEET		POUN	DS	1	□ то	NS			DAYS ON	0		
Storage Container (Check all that ap	r	Un	ovegroun derground nk Inside eel Drum	d Tan	k [	Plasti Can Carbo		netallic I	Dru	☐ Fibe ☐ Bag ☐ Box ✔ Cylii	r Drum nder		Plast	s Bottle ic Bott Bin Wago	te [	Rail Ca	ar		
STORAGE PRESSU	RE		a AMBI	ENT	V	b ABO	VE AMB	IENT		c BEL	OW AMB	IENT							
STORAGE TEMPER	ATURE		a AMBI	ENT		b ABO	VE AMB	IENT		c BEL	OW AMB	IENT		d	CRYOGE	VIC			
% WT			HAZA	RDOL	JS COM	MPONEN	ÎT (For	mixture	or wa	ste only	\$ 1-48:51	1	# 100 m	EHS	33	2	CAS#	g se di	**
1 99 90%	SUL	.FUR I	HEXAFLU	ORIDI	Ε								_	es 🗸	No 25	51-62-4			'
2 '	;														] No				
3	:					•		•	-	•			Y	res ✓	No				
4	1		•										Y	∕es ✓	No No				
5						-	-					· -	Y	∕es 🗸	] No				1
If more hazardous compor					weight if n	on-carcinog	enic, or 0	1% by weigl	ht if carcin	ogenic, atta	ch addition	al sheet	s of paper	capturing	the required	information			
ADDITIONAL LOCALL	Y COL	ECTE	) INFORMA	TION															
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#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

	15 A. A. A. A. A. A. A. A. A. A. A. A. A.			FACILITY IN	FORMATION				
BUSINESS NAME (Sa			,	A Themail in Manifestation 1 and	· restaurith and a service with the service with the service of th	Ka Albania - 25 sa malamate	. 0.0246424	A to a shifted a little a said a salline a	Marian Carrier of Name of St.
CHEMICAL LOCATION		ATION AMERIC					CHEMICA CONFIDE EPCRA	AL LOCATION ENTIAL -	Yes 🗸 No
FACILITY ID# 1 9		4 9 6 0	0 0 9 4	C	1 1	GRID# (optional		#56), E6, C1,	14 \$28,730,74,40,75
			The state of the s	II. CHEMICAL II	FORMATION				
CHEMICAL NAME	OXYGE	N GAS				·	TRADE S		Yes No refer to instructions
COMMON NAME	OXYGE	N GAS					EHS*		Yes 🗸 No
CAS#	7782-4	4-5					*If ÊHS is lbs.	"Yes", all amount	s below must be in
FIRE CODE HAZARD	CLASSES OXIDIZ		ed by CUPA)			,			
HAZARDOUS MATER TYPE (Check one item		<b>✓</b> PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	<b>√</b> No	CURIES	
PHYSICAL STATE (Check one item only)		SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINER	۲	-	_	•
FED HAZARD CATEG (Check all that apply)	ORIES	Fire	✓ Reactive	✓ Pressure Re	elease Acute	Health •	<b>∠</b> Chron	ıc Health	
AVERAGE DAILY AMOUNT	20	00000	MAXIMUM DAILY AMOUNT	250000	ANNUAL WASTE AMOUNT	0		STATE WASTE	0
UNITS* (Check one item only)	•	GALLONS	<b>✓</b> CUBIC I	FEET PO	DUNDS TO	ONS		DAYS ON SITE	365
Storage Container (Check all that app		Aboveground 1 Underground T		/Nonmetallic Dru	Fiber Drum	☐ Glass Bottle☐ Plastic Bottle		Raıl Car Other.	
		Tank Inside Bu Steel Drum	ıldın 🗌 Carboy	′	☐ Box ☐ Cylinder ☐	 ] Tote Bın ] Tank Wagon		-	-
STORAGE PRESSUR	RE	a AMBIENT	<b>√</b> b ABOV	E AMBIENT	c BELOW AMBIENT				
STORAGE TEMPERA	ATURE	a AMBIENT	b ABOV	E AMBIENT	c BELOW AMBIENT	d (	CRYOGEN	IC	
% WT. 1 99 90%	OXYGI	. المكامل المسامد .	OUS COMPONENT	F (For mixture or	waste only)	EHS *	No. 778	CAS 2-44-5	5#
2		-			<del>-</del>	☐ Yes ✔			
3	-1 : !	- <del></del>				☐ Yes 🗸	No .		
5						☐ Yes 🗸	No		
t .	ents are pres	ent at greater than 1%	by weight if non-carcinoger	nic, or 0 1% by weight if ca	rcinogenic, attach additional shee	Yes   Is of paper capturing the		nformation	
ADDITIONAL LOCALLY	Y COLLEC	TED INFORMATIO	N						
							If EF	PCRA, Please Sig	n Here

### HAZARDOUS MATERIALS INVENTORY

#### **HAZARDOUS MATERIALS**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

							Page 14	of 42
			I. FACILITY INF	ORMATION				
	as FACILITY NAME or DBA	- Doing Business As)	126.000 (126	discussion and the state of the same of th	<u> </u>	in tradition of a semidanical	awan Talabasa	"
	PRPORATION AMERIC					1		:
CHEMICAL LOCATION						CHEMICAL LOCATION CONFIDENTIAL -		~¬ '
1						EPCRA	Yes [	<b>V</b> No
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	MAP# (optional)		GRID# (optional	)		
			II. CHEMICAL IN	FORMATION				
CHEMICAL NAME	and the hand of the state of the	Market Market				ing sames and the same same same same same same same sam		. Sulv 8001 Talvi
	OXYGEN REFRIGERAT	ED LIQUID				TRADE SECRET  If Subject o EP	ا Yes لــــا CRA, refer to ا	
COMMON NAME		<del></del> .				EHS*	Yes [	<del></del>
1	LIQUID OXYGEN							
CAS#	7782-44-7					"If ÉHS is "Yes", all an		nust be in
						IDS.		
HIKE CODE HAZARD CL	ASSES (Complete if require	d by CUPA)						
: HAZARDOUS MATERIA						CURIES		1
TYPE (Check one item of		MIXTURE	∐ WASTE	RADIOACTIVE	Yes	<b>✓</b> No		:
PHYSICAL STATE	SOLID		GAS	LARGEST CONTAINE	R			ı
(Check one item only)		LIQUID		11000				
FED HAZARD CATEGOR (Check all that apply)	RIES 🗹 Fire	✓ Reactive	✓ Pressure Re	elease 🗹 Acute	Health [	Chronic Health		
AVERAGE DAILY AMOUNT	17000	MAXIMUM DAILY AMOUNT	17000	ANNUAL WASTE AMOUNT	0	STATE WA	O O	
UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC	FEET PO	UNDS 1	ONS	DAYS ON SITE	365	1
Storage Container (Check all that apply	, Aboveground T	ank 🗌 Plastic	/Nonmetallic Dru	Fiber Drum	Glass Bottle	Raıl Ca	r	
Check all that apply	Underground Ta			☐ Bag	Plastic Bottle	Other		
į.	Tank Inside Bui		/	Box	Tote Bın			
ı	Steel Drum	∐ Silo		Cylinder	Tank Wagon		_	
STORAGE PRESSURE	a AMBIENT	b ABOV	E AMBIENT	C BELOW AMBIENT				
STORAGE TEMPERAT				c BELOW AMBIENT	[ d (	CRYOGENIC		
% WT	ستانيات فالمساب فالمسابية	OUS COMPONEN	T (For mixture or y	vaste only)	EHS	L	CAS#	
1 99 90%	OXYGEN				🗌 Yes 🔽	No 7782-44-7		
2	•				☐ Yes 🗸	No.		
3					. — —	No		
	-				Yes ✓			,
4 1					☐ Yes 🔽	No		
5					☐ Yes 🗸	No		
If more hazardous component	s are present at greater than 1% t	by weight if non-carcinogei	nic, or 0.1% by weight if cal	rcinogenic, attach additional she	ets of paper capturing th	ne required information		
ADDITIONAL LOCALLY	COLLECTED INFORMATION	۷						
1 1								

If EPCRA, Please Sign Here

#### HAZARDOUS MATERIALS

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

		Pa	ge 15 of 42
BUSINESS NAME (Sar	I. FACILITY INFORMATION ne as FACILITY NAME or DBA - Doing Business As)		
	CORPORATION AMERIC		
CHEMICAL LOCATION	the control of the co	CHEMICAL LOCATION CONFIDENTIAL	Yes <b>☑</b> No
FACILITY ID# 1 9	GRID# (optional) 1 GRID# (optional)	<u></u>	
701211 1 B	O 4 9 6 O O O 9 4 MAP# (optional) 1 GRID# (optional)	ll) B3 (#36), D5 당당시 교육 (제76 현재	., errori
CUENICAL MANE	「		
CHEMICAL NAME	PETORLEUM BASED MOTOR OIL	TRADE SECRET If Subject o EPCRA, re	Yes V No fer to instructions
COMMON NAME	MOTOR OIL		Yes 🗸 No
,CAS #	8002-05-9	"If EHS is "Yes", all amounts bi	elow must be in
FIRE CODE HAZARD	CLASSES (Complete if required by CUPA) CL-IIIB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
HAZARDOUS MATERI TYPE (Check one item	) DUDE	✓ No CURIES	
PHYSICAL STATE (Check one item only)	☐ SOLID ☑ LIQUID ☐ GAS LARGEST CONTAINER 55		
FED HAZARD CATEGO , (Check all that apply)	Pressure Release ☐ Acute Health	✓ Chronic Health	
AVERAGE DAILY AMOUNT	110 MAXIMUM DAILY 110 ANNUAL WASTE AMOUNT 0	STATE WASTE O	-
UNITS* (Check one Item only)	✓ GALLONS ☐ CUBIC FEET ☐ POUNDS ☐ TONS	DAYS ON SITE 3	65
Storage Container (Check all that app	Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Underground Tank Can Bag Plastic Bottle	Rail Car	
ı	☐ Tank Inside Buildin ☐ Carboy ☐ Box ☐ Tote Bin  ✓ Steel Drum ☐ Silo ☐ Cylinder ☐ Tank Wagon		
STORAGE PRESSUR		· .	
STORAGE TEMPERA	TURE ☑ a AMBIENT ☐ b ABOVE AMBIENT ☐ c BELOW AMBIENT ☐ d (	CRYOGENIC	
% WT	HAZARDOUS COMPONENT (For mixture or waste only)  EHS	CAS#	Article Company
,	Yes 🗹	No	
2	☐ Yes 🗸	No	
3	☐ Yes ✓	No	
4	☐ Yes 📝	No	
5	Ţes ✓		
f more hazardous compone	nts are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the		
	COLLECTED INFORMATION		-
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		If EPCRA, Please Sign H	tere

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

							Page 16 of 42
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Mary Control of the C	I. FACILITY INF	ORMATION			
BUSINESS NAME (Same as F	ACILITY NAME or DBA	- Doing Business As)				In the Saleka of the State of the Saleka of	
AIR LIQUIDE CORPO	PRATION AMERIC			· · · · · · · · · · · · · · · · · · ·		n	
CHEMICAL LOCATION						CHEMICAL LOCAT CONFIDENTIAL - EPCRA	TON ☐ Yes 🗹 No
FACILITY ID# 1 9	4 9 6 0	0094	IAP# (optional)	<del>   -</del> -   -   -   -   -   -   -   -	GRID# (optiona	el) E7 (#17)	
The second second	ery kod filozofia		II. CHEMICAL IN	FORMATION			
CHEMICAL NAME			." ನಾಟಿಕ್ಕಾಡ್ ಇ	u 1977 - D. Pristur Madadasa .		TRADE SECRET	Yes V No
	PANE	-				If Subject o E	PCRA, refer to instructio
.COMMON NAME PRO	PANE					EHS*	Yes 🗸 No
CAS#						"If EHS is "Yes" all a	amounts below must be it
74-9	8-6					lbs.	
FIRE CODE HAZARD CLASS	ES (Complete if require	d by CUPA)	······································			.11. 1 1 mgs my1	
FG						laupieo	
HAZARDOUS MATERIAL TYPE (Check one item only)	✓ PURE	MIXTURE		RADIOACTIVE	Yes	✓ No  CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTA 4200	INER	J	
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	Pressure Re		ute Health	Chronic Health	h
AVERAGE DAILY AMOUNT	5000	MAXIMUM DAILY AMOUNT	5000	ANNUAL WASTE	0	STATE W	VASTE
.UNITS* :(Check one item only)	GALLONS	CUBIC F	EET PO	UNDS	TONS	DAYS ON	N 365
Storage Container	Aboveground T	ank 🗌 Plastic	Nonmetallic Dru	Fiber Drum	Glass Bottle	Rail C	ar
(Check all that apply)	Underground Ta	ank 🗌 Can		Bag	Plastic Bottl	e 🗌 Other.	
,	Tank Inside Bui	= '		Box	Tote Bin		
;	Steel Drum	Silo		✓ Cylinder	Tank Wagor	ר	
STORAGE PRESSURE	a AMBIENT	✓ b ABOV	EAMBIENT	C BELOW AMBIE	ENT		
STORAGE TEMPERATURE	<b>✓</b> a AMBIENT	b ABOV	E AMBIENT	c BELOW AMBIE	ENT d	CRYOGENIC	
% WT.	HAZARDO	OUS COMPONENT	(For mixture or v	vaste only)	EHS		CAS#
1 99 90% PRC	PANE			3	Yes 🔽	No 74-98-6	and the same of a second
2						 No	
3							
4	-		-		Yes <b>_</b> ✓	No	
4					Yes 🗸	No	
5					Yes 🗸	No	
If more hazardous components are			ic, or 0 1% by weight if car	rcinogenic, attach additional	sheets of paper capturing	the required information	
ADDITIONAL LOCALLY COLL	ECTED INFORMATION	4					

### **HAZARDOUS MATERIALS INVENTORY**

#### **HAZARDOUS MATERIALS**

#### - CHEMICAL DESCRIPTION

			Page 17 of 42
1	I. FACILITY INFORMATION  ne as FACILITY NAME or DBA - Doing Business As)	A STATE OF THE STA	
AIR LIQUIDE O	CORPORATION AMERIC		CAL LOCATION DENTIAL - ☐ Yes ☑ No
FACILITY ID# 1 9	0 4 9 6 0 0 0 9 4 MAP# (optional)		4-38-9
	II. CHEMICAL INFORMATION	5.3 7 7 P.V.	TO [22] 시 전 역( 프린티아
CHEMICAL NAME	CARBON DIOXIDE REFRIGERATED LIQUID		SECRET ☐ Yes ✔ No Subject o EPCRA, refer to instructions
COMMON NAME	CARBON DIOXIDE LIQUID	EHS*	☐ Yes ✓ No
CAS#	124-38-9	"If EHS is	s Yes , all amounts below must be in
FIRE CODE HAZARD	CLASSES (Complete if required by CUPA)	At LLC (e.g.	ŢĬĬĬĬŖĸĸĬĬĬŖĬĸĸĬĸĸŔĸŨ
HAZARDOUS MATER TYPE (Check one item	LAIDIDE LANVILLE LANGE LANGE LANGE	✓ No	CURIES
PHYSICAL STATE (Check one item only)	☐ SOLID ☐ GAS LIQUID ☐ GAS LARGEST CONTAINER 13000		
FED HAZARD CATEG (Check all that apply)	ORIES Reactive Pressure Release Acute Health	Chro	nic Health
AVERAGE DAILY AMOUNT	13000 MAXIMUM DAILY 13000 ANNUAL WASTE O		STATE WASTE CODE
UNITS* (Check one item only)	✓ GALLONS ☐ CUBIC FEET ☐ POUNDS ☐ TONS		DAYS ON SITE 365
Storage Container (Check all that app STORAGE PRESSUR	Underground Lank Can Bag Plastic Bot Tank Inside Buildin Carboy Box Tote Bin Steel Drum Silo Cylinder Tank Wag	tle	☐ Rail Car ☐ Other.
STORAGE TEMPERA	TURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT c	I CRYOGE	NIC
( %; WT	HAZARDOUS COMPONENT (For mixture or waste only)		CAS#
1	CO2 Yes	No	
2	☐ Yes •	<b>∕</b> No	
3	☐ Yes •	No	•
4	Yes	✓ No	
5 !	Yes •	No	-
: f more hazardous compone	ints are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturin		information
	COLLECTED INFORMATION	· .	
		lf F	PCRA, Please Sign Here

### **HAZARDOUS MATERIALS INVENTORY**

#### HAZARDOUS MATERIALS

#### - CHEMICAL DESCRIPTION

Talendary Association of the Control	. 8140 7			· · · · · · · · · · · · · · · · · · ·		र राज्यसम्बद्धाः स्टब्स्य स्टब्स्ट । स्टब्स्य	Page 10 01 42
			I. FACILITY IN	FORMATION			and the second of the second of
I .	as FACILITY NAME or DBA -	Doing Business As)					
CHEMICAL LOCATION	RPORATION AMERIC					CHEMICAL LO CONFIDENTIA EPCRA	
FACILITY ID# 1 9	0 4 9 6 0 0	0 9 4 MA	.P# (optional)		GRID# (optional	E7, (#5)	
Adam Andrews		The Sound of the State of the s	II. CHEMICAL II	IFORMATION 555			
CHEMICAL NAME	ROPYLENE		للاستاء الخالسفية المدائد	<u> Normala de Lordo de 1908 de cado de la </u>	Sand to Salant Salan Inches and an action of	TRADE SECRE	
COMMON NAME						If Subjec	t o EPCRA, refer to instructions  Yes No
	ROPYLENE						
CAS#	15-07-1					"If EHS is "Yes", lbs.	all amounts below must be in
FIRE CODE HAZARD CLA	SSES (Complete if required I	by CUPA)				Complete Box 1 Comment	and the second of the second o
FC _	G						
HAZARDOUS MATERIAL TYPE (Check one item only	y) VPURE	MIXTURE	WASTE	RADIOACTIVE	Yes	<b>☑</b> No CUR	IES
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	GAS	LARGEST CONTAI 8700	NER		
FED HAZARD CATEGORI (Check all that apply)	ES 🗸 Fire	Reactive	Pressure Re	elease	te Health [	Chronic He	ealth
AVERAGE DAILY		MAXIMUM DAILY AMOUNT	9000	ANNUAL WASTE AMOUNT	0	STAT	TE WASTE E
UNITS* (Check one item only)	GALLONS	CUBIC FE	ET 🗹 PC		TONS	DAY: SITE	
Storage Container (Check all that apply)	Aboveground Tai Underground Tan Tank Inside Build Steel Drum	k 🗌 Can	donmetallic Dru	☐ Fiber Drum ☐ Bag ☐ Box ✔ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon	e 🗍 Ot	ıl Car her
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOVE	AMBIENT	c BELOW AMBIE	NT		
STORAGE TEMPERATU	RE a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIE	NT d (	CRYOGENIC	
% WT	Karana Li wasania kata La	JS COMPONENT	(For mixture or v	waste only)	EHS		CAS#
1 99 90% P	ROPYLENE				✓ Yes 🗌	No 115-07-1	l
2					☐ Yes 🗸	No	
3	•	• • •			☐ Yes 🗸	No	•
4		•	–	<u>-</u>	☐ Yes 🗸	No .	
5 '					Yes 🗸	No	
If more hazardous components	are present at greater than 1% by	weight if non-carcinogenic	or 0.1% by weight if ca	rcinogenic, attach additional s			ion
ADDITIONAL LOCALLY CO	DLLECTED INFORMATION						
,							

#### HAZARDOUS MATERIALS

### **HAZARDOUS MATERIALS INVENTORY**

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		Page 19 of 42
	FACILITY INFORMATION	The water of the second of the
	e as FACILITY NAME or DBA - Doing Business As)	
CHEMICAL LOCATION	DRPORATION AMERICA	CHEMICAL LOCATION CONFIDENTIAL - Yes V No
: Liverania de la companya de la companya de la companya de la companya de la companya de la companya de la comp	רי וון דו מונים בי מונים בי מונים בי נוני נו בי מונים או או די וון דו מונים בי בי בי בי בי בי בי בי בי בי בי בי	EPCRA
FACILITY ID# 1 9	0   4   9     6   0   0   0   9   4   MAP# (optional) GRID# (optional)	) E3 (#60) 過過過過過過過過過過過過過過過過過
CHEMICAL NAME	ETHYLENE	TRADE SECRET ☐ Yes ✔ No If Subject o EPCRA, refer to instructions
COMMON NAME	ETHYLENE	EHS*
CAS#	74-85-1	"If EHS is "Yes", all amounts below must be in
1	LASSES (Complete if required by CUPA) FG	i di jijin na danga di di dadi Aka ang di nakalala na di di di da da da da da da da da da da da da da
HAZARDOUS MATERIA TYPE (Check one item o	A  DUDE	✓ No CURIES
PHYSICAL STATE (Check one item only)	☐ SOLID ☐ LIQUID ☑ GAS LARGEST CONTAINER 414	
FED HAZARD CATEGO (Check all that apply)	RIES	Chronic Health
AVERAGE DAILY AMOUNT	3000 MAXIMUM DAILY 3000 ANNUAL WASTE AMOUNT 0	STATE WASTE CODE
UNITS* (Check one item only)	☐ GALLONS ☐ CUBIC FEET ☑ POUNDS ☐ TONS	DAYS ON SITE O
Storage Container (Check all that appl	y) Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Underground Tank Can Bag Plastic Bottle Tank Inside Buildin Carboy Box Tote Bin	Rail Car Other
ı	☐ Steel Drum ☐ Silo ☑ Cylinder ☐ Tank Wagon	
STORAGE PRESSURE	a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT	
STORAGE TEMPERAT		CRYOGENIC
% WT.*, * ! ! 1   99 90%	HAZARDOUS COMPONENT (For mixture or waste only)	CAS#
2	☐ Yes 🗸	No
3 '	☐ Yes ✓	No
4 ;	☐ Yes 🗹	No
5	☐ Yes 🗹	No
If more hazardous componer	Its are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the	e required information
ADDITIONAL LOCALLY	COLLECTED INFORMATION	
I		
		If EPCRA, Please Sign Here

#### **HAZARDOUS MATERIALS**

### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

			I. FACILITY INF	ORMATION		11		
BUSINESS NAME (Same as FA		Doing Business As)	رايي الإن المسائلة عالى و منابة المتلفظة المسائلة على المسائلة	e a managa talah di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di	a thailigh Tail a a Deallaine bead an	To Santanio	*	T A STATE THE
AIR LIQUIDE CORPO	RATION AMERIC					CHEMICA CONFIDE EPCRA	AL LOCATION ENTIAL - Ye	es 🔽 No
FACILITY ID# 1 9 0	49600	0 9 4 M	AP# (optional) 1		GRID# (optional	) C2		
			II. CHEMICAL IN	FORMATION 3				
CHEMICAL NAME  NEON	1					TRADE S	SECRET You Subject o EPCRA, refe	es 🗹 No r to instructions
COMMON NAME NEON	1					EHS*	Y	es 🗸 No
CAS# 7440	-01-9					tif EHS is lbs	"Yes", all amounts bel	ow must be in
FIRE CODE HAZARD CLASSE	S (Complete if required b	y CUPA)				ise <u>veruger</u>	The state of the s	1 - 25 7 24,1 A.C. (C)
HAZARDOUS MATERIAL TYPE (Check one item only)	✓ PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	 ✓ No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINE 261	R		-	
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure Re	lease Acute	Health [	Chron	ic Health	
AVERAGE DAILY AMOUNT		AXIMUM DAILY MOUNT	5200	ANNUAL WASTE AMOUNT	0		STATE WASTE O	
UNITS* (Check one item only)	GALLONS	<b>✓</b> CUBIC FE	ET POL	JNDST	ONS		DAYS ON SITE O	
Storage Container (Check all that apply)	Aboveground Tanl Underground Tanl Tank Inside Buildi Steel Drum	c 🗌 Can	Nonmetallic Dru  AMBIENT	Fiber Drum  Bag  Box  Cylinder  C BELOW AMBIENT	Glass Bottle Plastic Bottle Tote Bin Tank Wagon		Rail Car Other	,
STORAGE TEMPERATURE	✓ a AMBIENT	b ABOVE		C BELOW AMBIENT		CRYOGEN		
% WT				vaste only)	EHS	: 3 PKG	CAS#	1 11.5 1 6 6 7
NEO  NEO  NEO  Trick the state of the state	resent at greater than 1% by v	eight if non-carcinogenic	or 0 1% by weight if can	cinogenic, attach additional shee	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No	nformation	
						)f FF	PCRA Please Sign He	ere

#### **HAZARDOUS MATERIALS**

#### **HAZARDOUS MATERIALS INVENTORY**

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

Page 21 of 42 I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** 60009 GRID# (optional) II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes V No TRIFLUOROMETHANE If Subject o EPCRA, refer to instructions COMMON NAME Yes 🗸 No HALOCARBON 23 CAS# "If EHS is "Yes", all amounts below must be in FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOUS MATERIAL CURIES PURE Yes Vo WASTE **RADIOACTIVE** TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER SOLID LIQUID **✓** GAS (Check one item only) FED HAZARD CATEGORIES Fire Chronic Health Reactive ✓ Pressure Release \_\_ Acute Health (Check all that apply) AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE STATE WASTE 7700 10000 0 AMOUNT AMOUNT AMOUNT CODE UNITS\* DAYS ON ☐ GALLONS **✓** CUBIC FEET POUNDS ☐ TONS 365 (Check one item only) SITE Storage Container Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Rail Car (Check all that apply) Underground Tank Can Bag Plastic Bottle Other Tank Inside Buildin Carboy □ Box Tote Bin Steel Drum Silo ✓ Cylinder Tank Wagon STORAGE PRESSURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT STORAGE TEMPERATURE ✓ a AMBIENT ☐ d CRYOGENIC b ABOVE AMBIENT C BELOW AMBIENT HAZARDOUS COMPONENT (For mixture or waste only) \*: % WT CAS# 99 90% **FLUOROFORM** 75-46-7 Yes V No Yes Vo Yes V No Yes V No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

								Page 22 of 42
BUSINESS NAME (Same as F	ACILITY NAME or DBA		. I. FACILITY IN	FORMATION				The second of the second second
AIR LIQUIDE CORPO		Boiling Busilioso 1.107						
CHEMICAL LOCATION						CHEMICAI CONFIDEN	LOCATION NTIAL -	Yes 🗸 No
FACILITY ID# 1 9 3 0	4 9 6 0 0		IAP# (ontional)		GRID# (optiona			
		0 3 4	II: CHEMICAL II	VEORMATION	5.000 (Option)	al) D2 (#	(33) Sasa[Mega]	
CHEMICAL NAME			And London Section		200 77 - 20 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	TRADE SE	CDET E	van
HEXA	AFLUOROETHANE							_ Yes ₩ No , refer to instructions
į .	DCARBON 116					EHS*		Yes 🗸 No
CAS# 76-10	6-4					*If EHS is "Y	es, all amount	s below must be in
FIRE CODE HAZARD CLASSE		by CUPA)				ing street and	TWALE MAN	
1 .							_	
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>₽</b> PURE	MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINE	ER			
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure R	elease Acute	e Health	Chronic		
AVERAGE DAILY AMOUNT	1 200	MAXIMUM DAILY AMOUNT	1200	ANNUAL WASTE AMOUNT	0		STATE WASTE CODE	0
.UNITS* ,(Check one item only)	GALLONS	<b>⊘</b> CUBIC F	EET PO	DUNDS 1	ONS		DAYS ON SITE	365
'Storage Container (Check all that apply)	Aboveground Ta	_	Nonmetallic Dru	☐ Fiber Drum ☐ Bag	☐ Glass Bottle ☐ Plastic Bottl	_	Rail Car Other	
'	Tank Inside Build			Box	Tote Bin			
. [	Steel Drum	Silo		Cylinder	Tank Wagor	า		
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABOV	E AMBIENT	c BELOW AMBIENT				
STORAGE TEMPERATURE	<b>⊘</b> a AMBIENT	☐ b ABOVI		c BELOW AMBIENT	d	CRYOGENIC	<u> </u>	
% WT	Sand was all Fig. to Sale 1997	US COMPONENT	(For mixture or	waste only)	EHS		CAS	\$#**
1 1 99 90% HEX.	AFLUOROETHANE	_			☐ Yes 🗹	No   76-16	6-4	
2					☐ Yes 🗸	No		
3					Yes 🗸	No	-	-
4		•	• • •		☐ Yes 🗹	No		
5					Yes 🗸	No		-
if more hazardous components are p	resent at greater than 1% b	y weight if non-carcinogen	ıc, or 0 1% by weight if c	arcinogenic, attach additional she		_	ormation	
ADDITIONAL LOCALLY COLL			<u> </u>	·-· · · · · · · · · · · · · · · · · · ·		·		
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						If EPO	CRA, Please Sig	n Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

	Page 23 of 42
I. FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERIC	
CHEMICAL LOCATION	CHEMICAL LOCATION
	CONFIDENTIAL - ☐ Yes ✓ No EPCRA
FACILITY D# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (optional)	
II. CHEMICAL INFORMATION	
CHEMICAL NAME TETRAFLUOROMETHANE	TRADE SECRET
COMMON NAME HALOCARBON 14	EHS* ☐ Yes ✔ No
	If EHS is "Yes", all amounts below must be in
75-73-0	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)	
HAZARDOUS MATERIAL TYPE (Check one item only)  PURE MIXTURE WASTE RADIOACTIVE Yes	✓ No CURIES
PHYSICAL STATE (Check one item only)  SOLID □ LIQUID ■ GAS  LARGEST CONTAINER  530	
FED HAZARD CATEGORIES (Check all that apply)  ☐ Fire ☐ Reactive ☑ Pressure Release ☐ Acute Health ☑	Chronic Health
AVERAGE DAILY  AMOUNT  15800  MAXIMUM DAILY  15800  AMOUNT  15800  AMOUNT  O  AMOUNT  O	STATE WASTE O
UNITS* (Check one item only)  GALLONS  ✓ CUBIC FEET □ POUNDS □ TONS	DAYS ON SITE 365
Storage Container Aboveground Tank Plastic/Nonmetallic Dru Glass Bottle	Rail Car
Underground Tank Can Bag Plastic Bottle Tank Inside Buildin Carboy Box Tote Bin	Other
☐ Steel Drum ☐ Silo ☑ Cylinder ☐ Tank Wagon	
STORAGE PRESSURE	
STORAGE TEMPERATURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT d C	RYOGENIC
% WT HAZARDOUS COMPONENT (For mixture or waste only)	CAS#
	No 75-73-0
i res wi	
Tes V	
Yes V	-
Yes V  If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the	
ADDITIONAL LOCALLY COLLECTED INFORMATION	: required information
	If EPCRA, Please Sign Here

## **HAZARDOUS MATERIALS**

Page 24 of 42

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	
AIR LIQUIDE CORPORATION AMERIC CHEMICAL LOCATION	CHEMICAL LOCATION CONFIDENTIAL - Yes V No EPCRA
FACILITY ID# 1 9 0 4 9 6 0 0 0 9 4 MAP# (optional) GRID# (optional)	E3 (#60)
II. CHEMICAL INFORMATION	
CHEMICAL NAME ETHANE	TRADE SECRET ☐ Yes ☑ No If Subject o EPCRA, refer to instructions
COMMON NAME  ETHANE	EHS <sup>⋆</sup> Yes  No
CAS#	If EHS is 'Yes' all amounts below must be in lbs
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)  FG	<u>- 13.000 (1.000 1</u>
HAZARDOUS MATERIAL  TYPE (Check one item only)  PURE MIXTURE WASTE RADIOACTIVE Yes [	✓ No CURIES
PHYSICAL STATE (Check one item only)  ☐ SOLID ☐ LIQUID  GAS  LARGEST CONTAINER  435	
FED HAZARD CATEGORIES (Check all that apply)  Fire Reactive Pressure Release Acute Health	Chronic Health
AVERAGE DAILY  AMOUNT  B50  MAXIMUM DAILY  AMOUNT  B50  ANNUAL WASTE  AMOUNT  O  UNITS*  CHeck one item only)  O  CUBIC FEET  POUNDS  TONS	STATE WASTE CODE DAYS ON SITE 365
Storage Container (Check all that apply)  Underground Tank  Tank Inside Buildin  Steel Drum  Storage Container  (Check all that apply)  Plastic/Nonmetallic Dru  Fiber Drum  Bag  Plastic Bottle  Carboy  Box  Tote Bin  Steel Drum  Silo  Cylinder  Tank Wagon	Rail Car
STORAGE TEMPERATURE	RYOGENIC
## HAZARDOUS COMPONENT (For mixture or waste only)    1   99 90%   ETHANE   Yes	No
	If EPCRA, Please Sign Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

							P	Page 25 d	of 42
			I. FACILITY IN	ORMATION		DA TAUSMAN	est <b>ja</b> t Visit kart		
BUSINESS NAME (Same as			Tare Transmission of the State	In all and all of the little and all all and a second	i mendentambil in the s	P. JEEN MARKATATAN IS	the was will be the the	. W.	1/2 × 1
AIR LIQUIDE CORF	PORATION AMERIC	CA							
CHEMICAL LOCATION						CHEMIC	AL LOCATION ENTIAL -	Yes 🗸	i Na
						EPCRA		] 100 [4	] 110
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	MAP# (optional)		GRID# (optiona	) D2	(#33)		:
			II. CHEMICAL IN	FORMATION		क्षेत्र के किया है। विकास के किया के किया			
CHEMICAL NAME	OMOTRIFLUOROM	ETILANIE		To a company of the second second second second second second second second second second second second second		TRADE S		Yes 🗹	
COMMON NAME	JINO I RIPLOGROM						Subject o EPCRA,		
R1	3B1					EHS*	<u></u>	] Yes 🔽	'] No
CAS#						"If EHS is	"Yes", all amounts	below mu	ist be in
	63-8 					ibs	and the state of t	h Lagrandon	
FIRE CODE HAZARD CLAS	SES (Complete if requir	ed by CUPA)							
HAZARDOUS MATERIAL							CURIES		!
TYPE (Check one item only)	<b>✓</b> PURE	☐ MIXTURE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No			:
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN 390	ER		_		
FED HAZARD CATEGORIES (Check all that apply)	S Fire	Reactive	✓ Pressure Re	elease 🗹 Acut	e Health	_ Chron	ic Health		
AVERAGE DAILY AMOUNT	780	MAXIMUM DAILY AMOUNT	1560	ANNUAL WASTE	0		STATE WASTE	<del>-</del> -	!
UNITS* (Check one item only)	GALLONS	S CUBIC	FEET PO	UNDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	Aboveground	Tank 🗌 Plastic	/Nonmetallic Dru	Fiber Drum	Glass Bottle		Rail Car		
, , , , , , , , , , , , , , , , , , ,	Underground 1	$\overline{\rightleftharpoons}$		Bag	Plastic Bottle	• [	Other		
	Tank Inside Bu Steel Drum	uldın ∐ Carbo <sup>.</sup> □ Sılo	У		☐ Tote Bin☐ Tank Wagon		-		
STORAGE PRESSURE	T							-	
	a AMBIEN	T ✓ b ABOV		© BELOW AMBIEN	1				
STORAGE TEMPERATURE				c BELOW AMBIEN	T d	CRYOGEN	IIC		
% WT . *	بشفيت كبيد والشاكية والمحادث	OUS COMPONEN	T (For mixture or a	vaste only)	EHS	. d	CAS	# . / / S /	
1 99 90% BR	OMOTRIFLUORME	THANE			☐ Yes 🗸	No 75-	63-8		
2					☐ Yes 🗸	No			
3					☐ Yes 🗸	No			
4	•				Yes 🗸	No.			
5	-		· · · · - · · · · · · · · · · · · · · ·		=				
			0 40/ b		Yes ✓	_			
If more hazardous components an ADDITIONAL LOCALLY COL			nic, or 0 1% by weight if ca	rcinogenic, attach additional sr	eets of paper capturing t	ne required ii	ntormation -		
							OCDA Disessio	n Usaa	
						II E	PCRA, Please Sigi	u Hete	

## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

							P	age 26 of 42
		344 <b>6</b> 2770.ss	. FACILITY IN	FORMATION		2.6(3)3		
BUSINESS NAME (Same as F	ACILITY NAME or DBA		m i tradama takki	Line Control of the C		orra i indes	of the Committee of the	المحتد المحتد
AIR LIQUIDE CORPO		-						
CHEMICAL LOCATION							CAL LOCATION	
 						CONFID EPCRA	ENTIAL -	Yes 🗸 No
FACILITY ID# 1 9 50 0	JAIOTTOIO		AAD# (ootional)		GRID# (optional)			
FACILITY ID# 1 9 0	0 4 9 6 0 0	0 0 9 4 6 1	AF# (optional)	l Herendere en en en en en en en en en en	CKID# (obtional	E3	্ৰত্ত <b>্ত</b>	regional in the second
			II. CHEMICAL IN	FORMATION	Buch Bre vill say	January Co.	<u>ોજ્યને તે તે કે કહે છે છે</u>	
CHEMICAL NAME	UTYLENE				ļ			Yes V No
COMMON NAME							Subject o EPCRA,	
	UTYLENE					EHS*	<u> </u>	Yes 🗹 No
'CAS#						if EHS is	"Yes", all amounts	below must be in
115-	11-7					lbs .	ijikarika keessa (sa Keessa in kansa keessa keessa keessa keessa keessa keessa keessa keessa keessa keessa keessa keessa keessa ke	
FIRE CODE HAZARD CLASSI	ES (Complete if required	by CUPA)						and the second desired and the second desired
FG							1	-
HAZARDOUS MATERIAL TYPE (Check one Item only)	✔ PURE	MIXTURE	☐ WASTE	RADIOACTIVE	☐ Yes [	<b>✓</b> No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINER 50				-
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	✓ Pressure Re	elease	Health [	Chro	nic Health	
AVERAGE DAILY	200	MAXIMUM DAILY AMOUNT	200	ANNUAL WASTE	0		STATE WASTE	
UNITS* (Check one item only)	GALLONS	CUBIC F	EET 🗹 PO	DUNDS TO	NS		DAYS ON SITE	365
Storage Container (Check all that apply)	Aboveground Ta	ank 🔲 Plastic	/Nonmetallic Dru	Fiber Drum	Glass Bottle	[	Rail Car	
ischeck all that apply)	Underground Ta			Bag	Plastic Bottle	[	Other	
,	Tank Inside Buil	=-	,	Box	Tote Bin			
	Steel Drum	Silo		Cylinder	Tank Wagon			
STORAGE PRESSURE	a AMBIENT	<b>☑</b> b ABOV	E AMBIENT	c BELOW AMBIENT				
STORAGE TEMPERATURE	<b>⊘</b> a AMBIENT		E AMBIENT	c BELOW AMBIENT	d C	RYOGE		
* WT- *, ```		DUS COMPONENT	(For mixture or y	waste only)	EHS		CAS	#
1 99 90% ISOE	BUTYLENE				✓ Yes 🗌	No 115	5-11-7	
2					☐ Yes 🗸	No.		
3						-		
					Yes ✓	NO		
4					Yes 🗸	No		
5	-				☐ Yes 🗸	No		
l_ If more hazardous components are p	present at greater than 1% b	y weight if non-carcinoger	nc, or 0 1% by weight if ca	arcinogenic, attach additional sheets			information	
ADDITIONAL LOCALLY COLL								
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## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

		Page 27 of 42
DISCHERO MARIE (O	I. FACILITY INFORMATION	
	as FACILITY NAME or DBA - Doing Business As)	
CHEMICAL LOCATION	RPORATION AMERICA	CHEMICAL LOCATION CONFIDENTIAL - Yes No EPCRA
FACILITY ID# 1 9	O 4 9 6 O O O 9 4 MAP# (optional) 1 GRID# (optional)	E3
	II. CHEMICAL INFORMATION	
CHEMICAL NAME		
15	SOBUTANE	TRADE SECRET Yes No If Subject o EPCRA, refer to Instructions
COMMON NAME	SOBUTANE	EHS*
CAS#	5-28-5	"If EHS is "Yes", all amounts below must be in lbs:
	ASSES (Complete if required by CUPA) G	
HAZARDOUS MATERIAL TYPE (Check one item on		✓ No CURIES
PHYSICAL STATE (Check one item only)	☐ SOLID ☐ LIQUID ☑ GAS LARGEST CONTAINER 70	
FED HAZARD CATEGOR (Check all that apply)	IES	Chronic Health
AVERAGE DAILY	210 MAXIMUM DAILY 210 ANNUAL WASTE O	STATE WASTE
(UNITS* (Check one item only)	☐ GALLONS ☐ CUBIC FEET ☑ POUNDS ☐ TONS	DAYS ON SITE 365
Storage Container (Check all that apply	Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Underground Tank Can Bag Plastic Bottle Tank Inside Buildin Carboy Box Tote Bin Steel Drum Silo	Rail Car Other
STORAGE PRESSURE	a AMBIENT  c BELOW AMBIENT	
STORAGE TEMPERATU		CRYOGENIC
99 90%	HAZARDOUS COMPONENT (For mixture or waste only)  EHS  SOBUTANE  ✓ Yes   ☐	75-28-5
2	☐ Yes 🗸	No I
3	☐ Yes 🗸	 No
4	☐ Yes 🔽	 No
5	☐ Yes 🗸	No
	s are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the COLLECTED INFORMATION	e required information
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		1
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## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

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BUSINESS NAME (Same as F	the contract was a solution of the best to	بالملائمون بالمناه المطالب	Children and an english		La Care de Al Maria	Palis	+ 4.0% - Q.P.		v slikerit
AIR LIQUIDE CORPO	DRATION AMERICA	·							
CHEMICAL LOCATION						CHEMICA   CONFIDE	L LOCATION	¬ v	. ₹ No
!						EPCRA	[	Yes	<b>▼</b> 1 NO
FACILITY ID# 1 9	49 600	0 9 4	AP# (optional)		GRID# (optiona	l) E3			
			II. CHEMICAL IN	IFORMATION		4178			
CHEMICAL NAME	nama artika nama				<u> </u>	TRADE SI	ECRET [	Yes	<b>✓</b> No
BUTA	4NE 					If St	ubject o EPCRA		
COMMON NAME BUTA	ANE					EHS*	[-	<b>✓</b> Yes	☐ No
CAS#						"If EHS is "	Yès", all amoun	ts below	must be in
106-	97-8					lbs.		# 14-71 # 1	
FIRE CODE HAZARD CLASS	ES (Complete if required	by CUPA)							
FG HAZARDOUS MATERIAL							CURIES		- ;
TYPE (Check one item only)	✓ PURE	MIXTURE	☐ WASTE	RADIOACTIVE	☐ Yes	<b>✓</b> No	CURIES		
PHYSICAL STATE	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIL	NER			•	
(Check one item only)			<b>▼</b> GAS	70		-	-		
FED HAZARD CATEGORIES (Check all that apply)	<b>✓</b> Fire	Reactive	✓ Pressure Re	elease 🗌 Acu	te Health [	Chroni	c Health		
AVERAGE DAILY AMOUNT		MAXIMUM DAILY AMOUNT	210	ANNUAL WASTE AMOUNT	0		STATE WASTE CODE		
UNITS* (Check one item only)	GALLONS	CUBIC F	EET PO	OUNDS [	TONS	1	DAYS ON SITE	365	
Storage Container :(Check all that apply)	Aboveground Ta	===	Nonmetallic Dru	Fiber Drum	Glass Bottle		Rail Car		
i	Underground Ta			∐ Bag	Plastic Bottle	•	Other		
: !	☐ Tank Inside Build ☐ Steel Drum	dın 🗌 Carboy 🗌 Sılo		_ Box ✓ Cylinder	Tote Bin Tank Wagon				
CTODACE BRECCURE	<del>-</del>		AAADICHT	<del></del>					
STORAGE PRESSURE	a AMBIENT	b ABOVE		C BELOW AMBIEN					
STORAGE TEMPERATURE	<b>✓</b> a AMBIENT	☐ b ABOVE	AMBIENT	C BELOW AMBIEN	NT d	CRYOGENI	C		<del>- , , ,</del>
% WT	Trainin a ser al	US COMPONENT	(For mixture or v	waste only) *	EHS		CAS	S# ***	
1 99 90% BUT	ANE				✓ Yes	No 106-	97-8		
2					☐ Yes 🗸	No		-	
3	-			· · · · · · · · · · · · · · · · · · ·	∵ Yes 🗸	No			-
4	-			· ·	☐ Yes 🗸	No.			
5	-								
1	707		0.40(1)		☐ Yes 🗸				
If more hazardous components are a ADDITIONAL LOCALLY COLL			c, or U 1% by weight if ca	rcinogenic, attach additional s	neets of paper capturing to	ne required int	ormation		
· !		•							
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1									
1						If EP	CRA, Please Sig	an Here	

### **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

							Page 29 of 42
			I. FACILITY IN	FORMATION			
BUSINESS NAME (Same as FA	ACILITY NAME or DBA - D	oing Business As)	la lace la <u>Marine de la lace</u>		i i i i i i i i i i i i i i i i i i i		. initialization of a secondarial and a secondarial
AIR LIQUIDE CORPO		,					
CHEMICAL LOCATION						CHEMICAL LOCAT	
!						CONFIDENTIAL - EPCRA	🗌 Yes 🗹 No
FACILITY ION A					CDID# (antono	\	
FACILITY ID# 1 9 8 0	49 600	0 9 4 3 1		1 Kanini meneralasan	GRID# (optiona	in Subsect particularity. N D3	n vast hitas kristoriji ni kani brij
		karija, iš	II. CHÉMICAL I	NFORMATION			
CHEMICAL NAME XENC	)N					TRADE SECRET	Yes V No
COMMON NAME				·			PCRA, refer to instructions
XENC	)N					EHS*	Yes 🗸 No
CAS#						"If EHS is "Yes", all a	mounts below must be in
7440	-63-3					lbs	
FIRE CODE HAZARD CLASSE	S (Complete if required by	CUPA)				Company of the same of the sam	
						,	
HAZARDOUS MATERIAL TYPE (Check one item only)	<b>✓</b> PURE [	MIXTURE	WASTE	RADIOACTIVE	☐ Yes	No CURIES	
PHYSICAL STATE							
(Check one item only)	SOLID [	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN 230	NEK		
FED HAZARD CATEGORIES						_	
(Check all that apply)	Fire [	Reactive	✓ Pressure R	elease Acu	te Health [	Chronic Health	1
AVERAGE DAILY AMOUNT		AXIMUM DAILY MOUNT	3000	ANNUAL WASTE AMOUNT	0	STATE W	ASTE
UNITS* (Check one item only)	GALLONS	<b>⊘</b> CUBIC F	EET P	OUNDS	TONS	DAYS ON SITE	365
Storage Container	Aboveground Tan	< ☐ Plastic/	Nonmetallic Dru	Fiber Drum	Glass Bottle	Rail Ca	ar
(Check all that apply)	Underground Tank	. 🔲 Can		☐ Bag	Plastic Bottle	e Other	
	Tank Inside Buildir	= '		☐ Box	Tote Bin	-	
<u> </u>	_ Steel Drum	Silo		Cylinder	Tank Wagon		
STORAGE PRESSURE	a AMBIENT	✓ b ABOVE	AMBIENT	C BELOW AMBIEN	ıτ		
STORAGE TEMPERATURE	<b>⊘</b> a AMBIENT	☐ b ABOVE	AMDIENT	c BELOW AMBIEN	II [] d /	CRYOGENIC	
					115 581.	- Tu	
% WT	HAZARDOU	S COMPONENT	(For mixture or	waste only)	A COST EHS		CAS#
, 1					☐ Yes 🗸	No	
2				*	☐ Yes 🗸	 No	
3 -							
-					Yes ✓	No 	
. 4					🗌 Yes 🔽	No	
5					☐ Yes 🗸	No	
If more hazardous components are p	resent at greater than 1% by w	eight if non-carcinogeni	ic, or 0 1% by weight if c	arcinogenic, attach additional sl			
ADDITIONAL LOCALLY COLLE			· · · · · · · · · · · · · · · · · · ·			· -	
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İ						If EPCRA, Plea	ase Sign Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

								Page 3	30 of 42
		an infanta, and in admit this	I. FACILITY IN	IFORMATION :					
BUSINESS NAME (Same as F	ACILITY NAME or DBA	- Doing Business As	) )		and the same to a second	20.0%		, F. u. F.	ti nekawit e
AIR LIQUIDE CORPO	DRATION AMERICA	<b>A</b>							
CHEMICAL LOCATION							CAL LOCATION ENTIAL -	C-1	<b>.</b>
						EPCRA	ENTIAL -	Yes	<b>✓</b> No
FACILITY ID# 1 9	0 4 9 6 0	0 0 9 4	MAP# (optional)	1	GRID# (optional	) D3			
			II. CHEMICAL	NEORMATION				1867 :	13 to 18 to
CHEMICAL NAME	na marahar atau			with the second continue of the second			グニュー・デート SECRET		Redion t
•	PTON						Subject o EPCF		✓ No o instructions
COMMON NAME						EHS*		Yes	✓ No
-	PTON								-,,
CAS # 7439	9-90-9					*If EHS is lbs.	"Yes", all amou	nts below	must be in
FIRE CODE HAZARD CLASS		d by CLIPA)	<b></b>		!	10 <b>3.</b> 5 11.		- 455	State of the state
	20 (Oompote ii require	<b>a by</b> 001 Ay							
HAZARDOUS MATERIAL	PURE	MIXTURE		PADIOACTIVE	·	ا الم	CURIES		
TYPE (Check one item only)		☐ MIXTORE	WASTE	RADIOACTIVE	Yes	<b>✓</b> No			
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIL	NER				
FED HAZARD CATEGORIES				230					
(Check all that apply)	Fire	Reactive	Pressure F	Release 🔲 Acu	te Health	Chro	nic Health		
AVERAGE DAILY	4000	MAXIMUM DAILY		ANNUAL WASTE			STATE WAST	Έ	
AMOUNT	4000	AMOUNT	4000	AMOUNT	0		CODE		
UNITS* (Check one item only)	GALLONS	CUBIC	FEET P	OUNDS	TONS		DAYS ON SITE	365	
Storage Container (Check all that apply)	Aboveground T		c/Nonmetallic Dru	Fiber Drum	Glass Bottle	[	Rail Car		
distribution (in the approximation)	Underground Ta	_		Bag	Plastic Bottle	[	Other		
;	Tank Inside Buil Steel Drum	ldın 🔲 Carbo	Y	Box <b>✓</b> Cylinder	Tote Bin		-		
· ·					Tank Wagon				
STORAGE PRESSURE	a AMBIENT	<b>✓</b> b ABO	VE AMBIENT	C BELOW AMBIEN	<b>∜</b> T				
STORAGE TEMPERATURE	a AMBIENT	D b ABO	VE AMBIENT	c BELOW AMBIEN	√T □ d C	RYOGE	IIC .		
%WT	HAZARDO	OUS COMPONEN	T (For mixture or	waste only)	EHS	3	C/	AS#	100 AB
1				an all the an are are greatered by	☐ Yes 🗹	No	/ e i e · · · · · · · · · · · · · · · · ·		7 M. 100 - March 1780
2					Yes 🗸	No.			
3									
					Yes 🗸	No 			
4	_				Yes 🗸	No			
5					Yes 🗸	No	•		
If more hazardous components are	present at greater than 1% t	by weight if non-carcinogo	enic, or 0 1% by weight if o	arcinogenic, attach additional s	heets of paper capturing th	e required	information		
ADDITIONAL LOCALLY COLL							•		
!									
)									

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

			I. FACILITY INF	ORMATION		7.5		Tage 3	70. 42 70. 43
BUSINESS NAME (Same as	FACILITY NAME or DBA -					97 LAROSE	erarii. S	, °, 7, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	
AIR LIQUIDE CORP	ORATION AMERICA						_		ļ
CHEMICAL LOCATION							AL LOCATION ENTIAL - [	Yes	<b>☑</b> No
FACILITY ID# 1 9	0 4 9 6 0 0	0 9 4 M	AP# (optional)		GRID# (optional	) F3 (	#44)	·	
		فتعاشهم بالمرافقة أحضاء بميسميك أ	II. CHEMICAL IN	FORMATION		ington. Salaha		VIV.	
CHEMICAL NAME OIL	Y WATER (WASTE)					TRADE S	SECRET [ Subject o EPCRA	Yes	
COMMON NAME	Y WATER (WASTE)	<u></u>				EHS*		Yes	
CAS#							"Yes", all amoun	ts below	must be in
FIRE CODE HAZARD CLASS	SES (Complete if required b	y CUPA)				lbs.		ALDE NORTH	
HAZARDOUS MATERIAL TYPE (Check one item only)	PURE	MIXTURE	<b>✓</b> WASTE	RADIOACTIVE	Yes	✓ No	CURIES	•	ı
PHYSICAL STATE (Check one item only)	SOLID	<b>✓</b> LIQUID	GAS	LARGEST CONTAINER 55			_		:
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure Re	elease	lealth [	✓ Chror	nc Health		
AVERAGE DAILY AMOUNT		AXIMUM DAILY MOUNT		ANNUAL WASTE AMOUNT	700		STATE WASTE	221	
'UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC FE	ET PO	UNDS TOP	18		DAYS ON SITE	365	!
Storage Container (Check all that apply)	<ul><li>☐ Aboveground Tar</li><li>☐ Underground Tan</li></ul>	_	Nonmetallic Dru	Fiber Drum	Glass Bottle	[	Rail Car		
1	Tank Inside Buildi			Box	Tote Bin	; (	_J Other		
	Steel Drum	Silo		Cylinder	Tank Wagon				
STORAGE PRESSURE	a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIENT					
STORAGE TEMPERATURE	<b>∠</b> a AMBIENT	☐ b ABOVE	AMBIENT	C BELOW AMBIENT	d (	CRYOGEN	IIC		
% WT	HAZARDOL	S COMPONENT	(For mixture or v	vaste only)	EHS		CA.	S#	
					Yes 🗸	No 			
2					Yes 🗸	No 			
3					Yes 🗸	No 			
5					☐ Yes 🗸	-			
		- <u> </u>		·	☐ Yes 🗹				ı
If more hazardous components are ADDITIONAL LOCALLY COL		veight if non-carcinogenic	c, or 0 1% by weight if ca	rcinogenic, attach additional sheets	of paper capturing the	ne required i	nformation	-	!
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						11 년	PCRA, Please Si	gn Here	

#### **HAZARDOUS MATERIALS**

Page 32 of 42

## **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

(one page per material per building or area)

I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE CORPORATION AMERICA CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** GRID# (optional) FACILITY ID# MAP# (optional) F3 (#44) II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET ☐ Yes 🗸 No NEUTRALIZED CAUSTIC SOLUTION (WASTE) If Subject o EPCRA, refer to instructions COMMON NAME Yes Vo **NEUTRALIZED CAUSTIC SOLUTION (WASTE)** CAS# \*If EHS is "Yes", all amounts below must be in FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOUS MATERIAL CURIES PURE Yes V No ✓ WASTE **RADIOACTIVE** TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER SOLID **✓** LIQUID GAS (Check one item only) FED HAZARD CATEGORIES Fire ✓ Reactive Pressure Release ✓ Acute Health Chronic Health (Check all that apply) AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE STATE WASTE 122 200 AMOUNT AMOUNT AMOUNT CODE UNITS\* DAYS ON ✓ GALLONS ☐ TONS CUBIC FEET □ POUNDS 365 (Check one item only) SITE Storage Container Plastic/Nonmetallic Dru Fiber Drum Rail Car Aboveground Tank Glass Bottle (Check all that apply) Underground Tank Can Bag Plastic Bottle Other Tank Inside Buildin Carboy Box Tote Bin ✓ Steel Drum Cylinder Tank Wagon STORAGE PRESSURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT STORAGE TEMPERATURE b ABOVE AMBIENT C BELOW AMBIENT ☐ d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) Yes V No Yes V No Yes V No 5 Yes V No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

					_	_		age 33	01 42
			I. FACILITY INF	ORMATION					
BUSINESS NAME (Same as		•							- **
AIR LIQUIDE CORP CHEMICAL LOCATION	ORATION AMERICA	<u> </u>			   		AL LOCATION ENTIAL -	Yes [₩	Ž No ;
FACILITY ID# 1 9	0 4 9 6 0 0	0 0 9 4 M	AP# (optional)		GRID# (optional		#44)		
			II. CHEMICAL IN	FORMATION 6			# <del>* * *  </del> #		
CHEMICAL NAME		Maria Artifetti	1986	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TRADE	SECRET	Yes 🔽	
	TRALIZED CAUSTI	SOLUTION (WA	STE)				Subject o EPCRA,		
COMMON NAME WA	STE CAUSTIC SOLU	ITION				EHS*		] Yes [▼	<u> </u>
CAS#						*If EHS is	"Yes"; all amounts	below m	ust be ın
			<u></u> -			lbs			
FIRE CODE HAZARD CLASS	SES (Complete if required	by CUPA)							
HAZARDOUS MATERIAL TYPE (Check one item only)	PURE	MIXTURE	<b>₩</b> WASTE	RADIOACTIVE	Yes	✓ No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	<b>☑</b> LIQUID	GAS	LARGEST CONTAIN	ER				•
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure Re	lease 🗸 Acute	e Health	Chror	nc Health		,
AVERAGE DAILY AMOUNT	55	MAXIMUM DAILY AMOUNT	55	ANNUAL WASTE AMOUNT	200		STATE WASTE	122	
UNITS* (Check one item only)	<b>✓</b> GALLONS	☐ CUBIC F	EET PO	UNDS	TONS		DAYS ON SITE	365	- ,
Storage Container (Check all that apply)	☐ Aboveground Ta☐ Underground Ta☐ Tank Inside Buil ☑ Steel Drum	nk Can din Carboy Silo	Nonmetallic Dru	☐ Fiber Drum ☐ Bag ☐ Box ☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon	[	Rail Car Other		
STORAGE PRESSURE	<b>⊘</b> a AMBIENT	b ABOVE	AMBIENT	c BELOW AMBIENT	·				
STORAGE TEMPERATURE	a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIENT		RYOGEN	IIC		
%.WT	HAZARDO	US COMPONENT	(For mixture or v	vasté only) 💢 🔭	EHS		CAS	#	
1					☐ Yes 🗸	No			i
2					☐ Yes 🗸	No			
3					☐ Yes 🗸	No			
4			···· ···· ··· ··· ··· ··· ··· ··· ···	/	☐ Yes 🗸	 No			
5			<u></u>		Yes 🗸			-	;
If more hazardous components are	present at greater than 1% b	weight if non-carcinogeni	c, or 0.1% by weight if car	cinogenic, attach additional she			nformation		,
ADDITIONAL LOCALLY COL				<u>.</u>					:
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						it Li	OCDA Places Cign	n Horo	

# HAZARDOUS MATERIALS INVENTORY

## HAZARDOUS MATERIALS

### - CHEMICAL DESCRIPTION

								Page 34 of 42
			I. FACILITY INF	ORMATION				
BUSINESS NAME (Same as F	ACILITY NAME or DBA	- Doing Business As)	. <u>داللاه</u> نديان <u>دنيگريد بالداد</u> د.			vi Ni	And the second	A
AIR LIQUIDE CORPO								
CHEMICAL LOCATION			<b></b>			CHEMIC	AL LOCATION	
							ENTIAL -	Yes 🗸 No
 		10 11 TT - 11 1787, 531				EPCRA		
FACILITY ID# 1 9	0 4 9 6 0 0	0 9 4 0	IAP# (optional) 1		GRID# (optional	F3 (	#44)	
			II. CHEMICAL IN	FORMATION				
CHEMICAL NAME	V.E. S.Brail.	Carlother State and the control of t	· · · · · · · · · · · · · · · · · · ·	<u> </u>	.i. 2006.200.26.2	TRADE	SECRET	Yes V No
OILY	WATER (WASTE)				i			A, refer to instructions
COMMON NAME						EHS*		Yes V No
	STE OILY WATER							
CAS#					j	*If EHS is	"Yes", all amou	nts below must be in
FIDE CODE HAZARD OLACO	70 /0 Lu			· · · · · · · · · · · · · · · · · · ·	. <u></u>	IDS.		
FIRE CODE HAZARD CLASSI	ES (Complete it required	by CUPA)						
HAZARDOUS MATERIAL	-			1			CURIES	-
TYPE (Check one item only)	PURE	■ MIXTURE	✓ WASTE	RADIOACTIVE	Yes [	<b>✓</b> No	COMILS	
PHYSICAL STATE				LARGEST CONTAINER			_	<del>.</del>
(Check one item only)	SOLID	✓ LIQUID	☐ GAS					
FED HAZARD CATEGORIES		□ Danat						
(Check all that apply)	Fire	Reactive	Pressure Re	lease	Health N	Chror	ic Health	
AVERAGE DAILY AMOUNT		MAXIMUM DAILY AMOUNT	55	ANNUAL WASTE AMOUNT	700	•	STATE WAST	E 221
UNITS* (Check one item only)	<b>✓</b> GALLONS	CUBIC F	EET PO	UNDS TO	NS	-	DAYS ON SITE	365
Storage Container	Aboveground Ta	nk Plastic/	Nonmetallic Dru	Fiber Drum	Glass Bottle	Г	Rail Car	
(Check all that apply)	Underground Tai	nk 🗌 Can		Bag	Plastic Bottle	Ī	Other:	
[	Tank Inside Build	lın 🗌 Carboy		Box	Tote Bin			
	<b>✓</b> Steel Drum	☐ Silo		Cylinder	Tank Wagon			
STORAGE PRESSURE	<b>∡</b> a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIENT				
STORAGE TEMPERATURE	✓ a AMBIENT	☐ b ABOVE	AMBIENT	c BELOW AMBIENT	☐ <b>d</b> C	RYOGEN	IIC	
%WT	HAZARDO	US COMPONENT	(For mixture or w	(aste only)	EHS	2 <u>k</u>	CA	NS#
1	ruski des filoloxi sudo kë	ras renderimi	بالمسائة القلاقيا يسلبه ال	تستلان بسأري بالتاب الوكية فمشبة	Yes 🔽	ے کا مات مام	in in the	Bull Value
2								
					Yes 🗸	No		
3				_	Yes 🗸	No		_
4					☐ Yes 🗸	 No		-
5					[ 1e2 🔼 ]			
					Yes 🔽	<b>10</b>		
If more hazardous components are p			c, or 0.1% by weight if car	cinogenic, attach additional sheets	of paper capturing th	e required i	nformation	
ADDITIONAL LOCALLY COLL	ECTED INFORMATION					•		
; 1								
! !						If Ef	PCRA, Please S	ign Here

## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

							_	Page 3	35 of 42
			I. FACILITY INFO	ORMATION					
BUSINESS NAME (Same as F		Doing Business As	)	and the distinction of the last desired and the las	and the state of t		and the second second second second second	,	3 888-22 89
AIR LIQUIDE CORPO	PRATION AMERICA					CHEMI	CAL LOCATION	r	
ONE MICAE ECCATION						CONFID	DENTIAL -		<b>✓</b> No
FACH PROPERTY L. L. FROM A			AAAD# (		]	EPCRA			
FACILITY ID# 1 9 0	4 9   6 0 0	0 9 4			GRID# (optional	) F3	(#44)	38-20 VA	اوري روسي ت
CHEMICAL NAME			II. CHEMICAL INF	URMATION 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CASE PARTIES DA	-13 1 (1994) -13 1 (1994)			žŁ.
	ER BASED PAINT (W	ASTE)					SECRET Subject o EPCI		✓ No instructions
COMMON NAME	TE MATER DAGER 5					EHS*		Yes	✓ No
·	TE WATER BASED F	'AIN I 				er FUO :	- 454 - 11		
CAS#						lbs	s "Yes" all amo	ints delow	must be iii
FIRE CODE HAZARD CLASSE	S (Complete if required b	CUPA)		<del></del>		L	823. JY		فأنالسا الأأة
 					· - · - · - · - ·		···la		
HAZARDOUS MATERIAL TYPE (Check one item only)	Pure	MIXTURE	<b>✓</b> WASTE	RADIOACTIVE	Yes	<b>✓</b> No	CURIES		
PHYSICAL STATE (Check one item only)	SOLID	✓ LIQUID	GAS	LARGEST CONTAINER			J		- 1
FED HAZARD CATEGORIES	☐ Fire	Reactive	Pressure Rele	55 ease ∏ Acute I	dealth 6	 <b>⊘</b> Chro	- nıc Health		
(Check all that apply) AVERAGE DAILY		AXIMUM DAILY		ANNUAL WASTE			STATE WAS	 TF	
AMOUNT		MOUNT	55	AMOUNT	600		CODE	135	;
'UNITS* (Check one item only)	✓ GALLONS	CUBIC	FEET POU	INDS TO	NS		DAYS ON SITE	365	
Storage Container	Aboveground Tan	k 🔲 Plastic	:/Nonmetallic Dru	Fiber Drum	Glass Bottle		_: ☐ Rail Car		'
(Check all that apply)	Underground Tank			Bag	Plastic Bottle		Other		
L	_] Tank Inside Buildii ☑ Steel Drum	n ∐ Carbo ∏ Silo	У	Box Cylinder	] Tote Bin ] Tank Wagon				
STORAGE PRESSURE			E AMDIENT		J Talik Wagoli	-	-		
STORAGE PRESSURE	a AMBIENT		/E AMBIENT	C BELOW AMBIENT					
STORAGE TEMPERATURE		☐ b ABO	/E AMBIENT	C BELOW AMBIENT	☐ d (	CRYOGE	NIC		
% WT .***	HAZARDÓÙ	S COMPONEN	T (For mixture or w	aste only)	EHS			AS#	
1					Yes 🗸	No			
2					☐ Yes 🗸	No			
3					☐ Yes 🗹	No			
4	· · · · · · · · · · · · · · · · · · ·				☐ Yes 🗸	— No			
5					☐ Yes 🗸	No.			,
 If more hazardous components are p	resent at greater than 1% by w	eight if non-carcinoge	nic, or 0 1% by weight if carc	inogenic, attach additional sheets			information		
ADDITIONAL LOCALLY COLL			··· ··- ··· · · · · · · · · · · · · · ·						
									;
									!
						If E	PCRA, Please	Sign Here	

#### **HAZARDOUS MATERIALS**

## **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

(one page per material per building or area)

Page 36 of 42 I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE AMERICA L P CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -**ESG CAGE** Yes V No **EPCRA** GRID# (optional) 0 0 9 II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes V No ARGON/HYDROGEN MIXTURE If Subject o EPCRA, refer to instructions COMMON NAME Yes Vo ARGON/HYDROGEN MIXTURE ICAS# If EHS is "Yes"; all amounts below must be in 7440-37-1 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) HAZARDOUS MATERIAL CURIES ☐ PURE ✓ MIXTURE WASTE **RADIOACTIVE** Yes ✓ No TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER ☐ SOLID **✓** GAS LIQUID (Check one item only) FED HAZARD CATEGORIES ✓ Fire Reactive Pressure Release Chronic Health Acute Health (Check all that apply) **IAVERAGE DAILY** MAXIMUM DAILY ANNUAL WASTE STATE WASTE 2000 2000 AMOUNT AMOUNT CODE AMOUNT UNITS\* **IDAYS ON** ☐ GALLONS CUBIC FEET POUNDS TONS 365 (Check one item only) SITE Storage Container Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle Rail Car (Check all that apply) Underground Tank Can Bag Plastic Bottle Other Tank Inside Buildin Carboy Box Tote Bin Steel Drum Silo ✓ Cylinder Tank Wagon STORAGE PRESSURE a AMBIENT b ABOVE AMBIENT C BELOW AMBIENT a AMBIENT STORAGE TEMPERATURE b ABOVE AMBIENT C BELOW AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) % WT CAS# 80 00% HYDROGEN 7440-37-1 Yes V No 2 20 00% ARGON 1333-74-0 Yes V No 3 Yes V No Yes **✓** No Yes V No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information IADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

		Page 37 of 42
	I FACILITY INFORMATION	
BUSINESS NAME (Same as	FACILITY NAME or DBA - Doing Business As)	and the state of t
AIR LIQUIDE AMER	RICA L.P.	
CHEMICAL LOCATION		CHEMICAL LOCATION
ESG CAGE		CONFIDENTIAL - ☐ Yes ✓ No EPCRA
FACILITY ID# 1 9	O 4 9 6 O O O 9 4 MAP# (optronal) GRID# (optronal)	
	ULCHEMICAL INFORMATION	्रिकारमञ्जूषा स्टब्स्यस्य साम्यस्य रहा । १ व्हार्यः १८०) हे प
CUESTICAL MANAGE	II. CHEMICAL INCUMINATION	
CHEMICAL NAME HEL	.IUM/NITROGEN MIXTURE	TRADE SECRET Yes ✓ No  If Subject o EPCRA, refer to instructions
COMMON NAME		
! -	LIUM/NITROGEN MIXTURE	EHS* Yes V No
CAS#		"If EHS is "Yes", all amounts below must be in
1	40-59-7	
FIRE CODE HAZARD CLASS	SES (Complete if required by CUPA)	
HAZARDOUS MATERIAL		CURIES
TYPE (Check one item only)	☐ PURE ✓ MIXTURE ☐ WASTE RADIOACTIVE ☐ Yes	No CORIES
PHYSICAL STATE	LARGEST CONTAINER	
(Check one item only)	☐ SOLID ☐ LIQUID ☑ GAS 200	
FED HAZARD CATEGORIES (Check all that apply)	S Fire Reactive Pressure Release Acute Health	Chronic Health
AVERAGE DAILY	2000 MAXIMUM DAILY 2000 ANNUAL WASTE AMOUNT	STATE WASTE
UNITS*	☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS	IDAYS ON
(Check one item only)		SITE 365
Storage Container (Check all that apply)	Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle	Rail Car
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Underground Tank Can Bag Plastic Bottle	e Other.
!	Tank Inside Buildin     □ Carboy     □ Box     □ Tote Bin       □ Steel Drum     □ Silo     ✔ Cylinder     □ Tank Wagon	
STORAGE PRESSURE	a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT	
STORAGE TEMPERATURE	■ a AMBIENT	CRYOGENIC
-% WT- *	HAZARDOUS COMPONENT (For mixture or waste only)	CAS#
1 90 00% NIT	「ROGEN Yes ✓	No 7727-37-9
2 100 00% HE	LIUM Yes 🗸	No. 7440-59-7
3		
	Yes 🗹	No
4	☐ Yes 🗹	No
5	☐ Yes 🔽	No
If more hazardous components are	e present at greater than 1% by weight if non-carcinogenic, or 0 1% by weight if carcinogenic, attach additional sheets of paper capturing t	ne required information
ADDITIONAL LOCALLY COL	LECTED INFORMATION	-
f ,		
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1 1		
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ł.		If EPCRA Please Sign Here

## **HAZARDOUS MATERIALS**

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

		Page 38 of 42
	I: FACILITY INFORMATION	
	is FACILITY NAME or DBA - Doing Business As)	. De Talmand Manager - Le grand de Specie ( ) et Brançais - Le Braçaise ( ) et 😷 - et
AIR LIQUIDE AMI	RICA L.P	CHEMICAL LOCATION
ESG CAGE		CONFIDENTIAL - Yes No
	والمنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع المنافع	EPCRA
FACILITY ID# 1 9	O 4 9 6 O O O 9 4 MAP# (optional) GRID# (optional)	rannalukka dikun dannarkalah sansa ora, sahirinah . G. K. I. masa ada sili.  }
	II. CHEMICAL INFORMATION	
CHEMICAL NAME	KYGEN/HELIUM MIXTURE	TRADE SECRET Yes V No If Subject o EPCRA, refer to instructions
COMMON NAME		EHS* ☐ Yes ✓ No
	KYGEN/HELIUM MIXTURE	
CAS#		*If EHS is "Yes", all amounts below must be in lbs
FIRE CODE HAZARD CLA	SSES (Complete if required by CUPA)	The section of the se
HAZARDOUS MATERIAL TYPE (Check one item onli	n ☐ PURE ☑ MIXTURE ☐ WASTE RADIOACTIVE ☐ Yes	✓ No CURIES
PHYSICAL STATE	LARGEST CONTAINER	
(Check one item only)	SOLID LIQUID GAS 235	
FED HAZARD CATEGORI (Check all that apply)	ES	Chronic Health
AVERAGE DAILY	2350 MAXIMUM DAILY ANNUAL WASTE AMOUNT 2350 AMOUNT	STATE WASTE
UNITS* (Check one item only)	☐ GALLONS ☑ CUBIC FEET ☐ POUNDS ☐ TONS	DAYS ON SITE 365
Storage Container	Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Glass Bottle	Rail Car
(Check all that apply)	Underground Tank Can Bag Plastic Bottle	e Other
	☐ Tank Inside Buildin ☐ Carboy ☐ Box ☐ Tote Bin ☐ Steel Drum ☐ Silo ✔ Cylinder ☐ Tank Wagon	
     STORAGE PRESSURE	□ a AMBIENT □ b ABOVE AMBIENT □ c BELOW AMBIENT	
STORAGE TEMPERATU		CRYOGENIC
% WT	HAZARDOUS COMPONENT (For mixture or waste only)	CAS#
1 90 00% H	ELIUM Yes 🗸	No 7440-59-7
2 10 00%	XYGEN ☐ Yes 🗹	No 7782-44-5
3	☐ Yes 🗹	No
4	☐ Yes 🗹	 No
5		÷
If more hazardous components	are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing t	
ADDITIONAL LOCALLY CO		
İ		
1		If EPCRA, Please Sign Here

## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

## - CHEMICAL DESCRIPTION

(one page per material per building or area)

Page 39 of 42

			1. FACILITY INFO	ORMATION	100 V 637			
BUSINESS NAME (Same as		Doing Business As)	gape an Alice of the Mandata Alice Andrews of Landau Land September 1995	College on the second disposal and the second of the secon	The state of the s	and and a value of the same		
AIR LIQUIDE AMER	ICA L P					LOHEMICA	L LOCATION	
CHEMICAL LOCATION ESG CAGE						CONFIDE EPCRA		Yes 🗹 No
ĄCILITY ID# 1 9	0 4 9 6 0 0	0 9 4	IAP# (optional)		GRID# (optiona	l)		~
			II. CHEMICAL IN	ORMATION				
CHEMICAL NAME	ON/HELIUM MIXTUF	C	<u> </u>	<u> </u>		TRADE SI		Yes 🗸 No
COMMON NAME		· · · · · · · · · · · · · · · · · · ·				-	ubject o EPCRA, r	
	ON/HELIUM MIXTUR	E				EHS*		Yes 🗸 No
CAS#						*If EHS is *	Yes", all amounts	below must be in
FIRE CODE HAZARD CLASS	SES (Complete if required t	y CUPA)				103.	elektrist — — — — — — — — — — — — — — — — — — —	Company of the
HAZARDOUS MATERIAL TYPE (Check one item only)		✓ MIXTURE	WASTE	RADIOACTIVE	Yes	<b>☑</b> No	CURIES	
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAINER	R			
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	✓ Pressure Rel		Health [	Chroni	c Health	
AVERAGE DAILY		AXIMUM DAILY MOUNT	2000	ANNUAL WASTE AMOUNT			STATE WASTE	
JNITS* Check one item only)	GALLONS	<b>✓</b> CUBIC F	EET POL	JNDS TO	DNS		DAYS ON SITE	365
Storage Container (Check all that apply) STORAGE PRESSURE	☐ Aboveground Tai ☐ Underground Tan ☐ Tank Inside Build ☐ Steel Drum ☐ a AMBIENT	k 🗌 Can		☐ Bag ☐ Box ☐ Cylinder ☐ C BELOW AMBIENT	Glass Bottle Plastic Bottle Tote Bin Tank Wagor	-	] Rail Car ] Other	
STORAGE TEMPERATURE			E AMBIENT	c BELOW AMBIENT		CRYOGENI	 C	
% WT				aste onlŷ)	EHS	77.00	CAS#	4
عَفْلًا فَيْ عَمْ لِنَا لَا كَفُعَا عَبِيلِكِ	JUM	Alleria La Barrella II			☐ Yes 🗹	No. 7440	)-59-7	in the in
2 5.00% XEI	NON						0-63-3	
3		<del>-</del>			Yes 🗹			
					Yes 🗸	No 		
4		·			Yes 🗸	No		
5					Yes 🗸	No		
f more hazardous components are	present at greater than 1% by	weight if non-carcinoger	ic, or 0.1% by weight if can	cinogenic, attach additional shee	ts of paper capturing t	he required in	formation	
ADDITIONAL LOCALLY COL	LECTED INFORMATION							
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#### HAZARDOUS MATERIALS

Page 40 of 42

## HAZARDOUS MATERIALS INVENTORY

#### - CHEMICAL DESCRIPTION

(one page per material per building or area)

I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) AIR LIQUIDE AMERICA L P CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL -Yes V No **EPCRA** 600094 MAP# (optional) GRID# (optional) II. CHEMICAL INFORMATION CHEMICAL NAME Yes V No TRADE SECRET NITROUS OXIDE if Subject o EPCRA, refer to instructions, COMMON NAME 🔲 Yes 🗹 No NITROUS OXIDE CAS# \*If EHS is "Yes", all amounts below must be in 10024-97-2 FIRE CODE HAZARD CLASSES (Complete if required by CUPA) Nonflammable Gas HAZARDOUS MATERIAL CURIES ✔ PURE WASTE **RADIOACTIVE** Yes V No TYPE (Check one item only) PHYSICAL STATE LARGEST CONTAINER SOLID LIQUID **✓** GAS (Check one item only) FED HAZARD CATEGORIES Reactive Fire ✓ Pressure Release Chronic Health Acute Health (Check all that apply) AVERAGE DAILY MAXIMUM DAILY ANNUAL WASTE STATE WASTE 1200 1200 AMOUNT AMOUNT AMOUNT CODE UNITS\* DAYS ON ☐ GALLONS CUBIC FEET POUNDS TONS 365 (Check one item only) SITE Storage Container Aboveground Tank Plastic/Nonmetallic Dru Fiber Drum Rail Car Glass Bottle (Check all that apply) Underground Tank Can Other Bag Plastic Bottle Tank Inside Buildin Carboy Box Tote Bin Steel Drum Tank Wagon Silo ✓ Cylinder STORAGE PRESSURE a AMBIENT b ABOVE AMBIENT c BELOW AMBIENT STORAGE TEMPERATURE a AMBIENT ✓ b ABOVE AMBIENT C BELOW AMBIENT d CRYOGENIC HAZARDOUS COMPONENT (For mixture or waste only) EHS. NITROUS OXIDE 10024-97-2 Yes V No 2 Yes V No Yes Vo Yes V No If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Here

## HAZARDOUS MATERIALS

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

				ORMATION		The state of the s	• • • • • • • • • • • • • • • • • • • •	rage 41 OI	. <del></del>
BUSINESS NAME (Same as FA	ACILITY NAME or DBA -	Section of the second		South the second	The state of the s	<u>Barry</u>	en Britis Hill	المناهسين الكيفائي	اد از در اداشتان
AIR LIQUIDE AMERIC	CALP.	,							
CHEMICAL LOCATION							AL LOCATION ENTIAL -	Yes 🔽 No	0
FACILITY ID# 1 9 0	495600	0 9 4	MAP# (optional)		GRID# (optional	)			
			II. CHEMICAL IN	FORMATION					
CHEMICAL NAME						TRADE :	SECRET [ Subject o EPCRA,	Yes V No	
COMMON NAME						EHS*		] Yes <b>☑</b> No	
CAS#			·			II EHS is	"Yes", all amount	s below must be	e in
FIRE CODE HAZARD CLASSE	S (Complete if required I	y CUPA)	<del></del>			<u> </u>	Bibliote sixi (m.).	. A 12	
HAZARDOUS MATERIAL TYPE (Check one item only)	D PURE	MIXTURE	WASTE	RADIOACTIVE	Yes		CURIES		:
PHYSICAL STATE (Check one Item only)	SOLID	EB LIQUID	€ GAS	LARGEST CONTAINER	2				
FED HAZARD CATEGORIES (Check all that apply)	Fire	Reactive	Pressure Re	lease	Health [	Chror	nc Health		•
AVERAGE DAILY AMOUNT		AXIMUM DAILY MOUNT		ANNUAL WASTE AMOUNT			STATE WASTE CODE		
UNITS* (Check one item only)	GALLONS	CUBIC F	FEET PO	UNDS TO	NS		DAYS ON	365	
Storage Container (Check all that apply)	Aboveground Tar Underground Tan Tank Inside Build Steel Drum	k 🗌 Can	/Nonmetallic Dru	Fiber Drum Bag Box Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagon	[	Rail Car Other		
STORAGE PRESSURE	a AMBIENT	₫ b ABOV	E AMBIENT	a BELOW AMBIENT					
STORAGE TEMPERATURE	a AMBIENT	₿ b ABOV		© c BELOW AMBIENT	∄ d (	RYOGEN	IIC		
% WT	HAZARDO	JS COMPONENT	(For mixture or v	vaste only)	EHS	到此	CAS	#1	
2					Yes 🗸	No 			
3					Yes <b>✓</b>				
4					Yes 🗸				
5			·		☐ Yes 🗸				
If more hazardous components are p	resent at greater than 1% by	weight if non-carcinogen	nc, or 0 1% by weight if car	cinogenic, attach additional sheet	Yes V	e required i	nformation		
ADDITIONAL LOCALLY COLLE	ECTED INFORMATION			.: 1 <sup>*</sup> 1' 111 <u></u> .					
						lf ⊏	PCRA Please Sin	n Here	

### **HAZARDOUS MATERIALS**

Page 42 of 42

# **HAZARDOUS MATERIALS INVENTORY**

### - CHEMICAL DESCRIPTION

DUONIFICO NAME (O			I FACILITY IN	FORMATION			50 F 5 5
BUSINESS NAME (Same as F. AIR LIQUIDE AMERI		Doing Business As)					
CHEMICAL LOCATION	<u> </u>					CHEMICAL LOCAT CONFIDENTIAL - EPCRA	TON Yes <b>☑</b> No
FACILITY ID# 1 9 0	49600	094	IAP# (optional)		GRID# (optiona	1)	
			II. CHEMICAL I	NFORMATION			
CHEMICAL NAME NITR	OGEN TRIFLOURIDI	on the state of th				TRADE SECRET If Subject o E	☐ Yes ✓ No PCRA, refer to instructions
COMMON NAME NITR	OGEN TRIFLOURIDI					EHS*	Yes 🗸 No
CAS# 7783	3-54-2					"If EHS is "Yes", all a	mounts below must be in
FIRE CODE HAZARD CLASSE	ES (Complete if required lammable gas	by CUPA)	····				
HAZARDOUS MATERIAL TYPE (Check one item only)	✓ PURE	MIXTURE	☐ WASTE	RADIOACTIVE	Yes	✓ No CURIES	· · · ·
PHYSICAL STATE (Check one item only)	SOLID	LIQUID	<b>✓</b> GAS	LARGEST CONTAIN 50	IER		- · · -
FED HAZARD CATEGORIES (Check all that apply)	Fire	✓ Reactive	✓ Pressure R	elease	e Health	· ✓ Chronic Healtl	 1
AVERAGE DAILY AMOUNT	OUU I	MAXIMUM DAILY MOUNT	800	ANNUAL WASTE AMOUNT	0	STATE W	
UNITS* (Check one item only)	GALLONS	CUBIC F	EET PO	DUNDS	TONS	DAYS ON SITE	365
Storage Container (Check all that apply)	Aboveground Ta Underground Tar Tank Inside Build Steel Drum	k 🗌 Can	Nonmetallic Dru	☐ Fiber Drum☐ Bag☐ Box☐ Cylinder	Glass Bottle Plastic Bottle Tote Bin Tank Wagor	<u> </u>	ar
STORAGE PRESSURE	a AMBIENT	☐ b ABOV	E AMBIENT	C BELOW AMBIEN	Т		
STORAGE TEMPERATURE	a AMBIENT	<b>✓</b> b ABOV	E AMBIENT	c BELOW AMBIEN	T d	CRYOGENIC	
j i	HAZARDO ROGEN TRIFLOURID	JS COMPONENT E	(For mixture or	wastę only)	☐ Yes 🗸	A S. L. LANGERTA	CAS#
3				· · · · · · · · · · · · · · · · · · ·	Yes V		
4					Yes V		
5		- <del></del> · ·			☐ Yes 🗸		
If more hazardous components are p	present at greater than 1% by	weight if non-carcinogen	ic, or 0 1% by weight if c	arcinogenic, attach additional sh	eets of paper capturing t	he required information	
ADDITIONAL LOCALLY COLL	ECTED INFORMATION						
						If FPCRA Plea	asa Sian Here

9a

НМ

Printed/Typed Name

GENERATOR X

Signature

Month

**GENERATOR'S INITIAL COPY** 

Day

Year

20 Designated Faculity Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

PAGE OF

GENERATOR NAME. AIR LIQUIDE OSC

COU 569268 MANIFEST NO

MANIFEST PAGE/LINE#

FURBUANT TO 40 CFR 268 7(A), I HEREBY NOTIFY THAT THIS SHIPMENT CONTAINS WASTE RESTRICTED UNDER 40 CFR PART 268 LAND DISPOSAL RESTRICTIONS (LDR).

A GENERAL WASTE NOTIFICATION FPA WASTE CODES & LDR SUBCATEGORIES (IF ANY) DOO1 LIQUID D= 10% TOC DOOS DOO6 DOO7 DOO8 DO

TREATABILITY GROUP. NUNWASTEWATERS

WASTE CONSTITUENT NOTIFICATION LEGEND NUMBER CONSTITUENT 103 152 154 173 178 183 CYCLOHEXANONE ETHYL ACETATE ETHYL BENZENE ISOBUTYL ALCOHOL METHANOL METHANOL
METHYLENE CHLORIDE
METHYL ETHYL KETONE
METHYL ISOBUTYL KETONE
PHTHALIC ANHYDRIDE
TETRACHLOROETHYLENE 184 185 217 229 231 237 245 TOLUENE TRICHLOROETHYLENE
XYLENES-MIXED ISOMERS (SUM OF O-, m AND P-XYLENE CONCENTRATIONS)

ACETONE

N-BUTYL ALCOHOL

9,13,07

GENERATOR'S AUTHORIZED SIGNATURE

NAME % TITLE (PRINTED OR TYPED)

DATE

S-K PROFILE REFERENCE NUMBER.

3435155

CONTRO: NUMBER

2224730-4

Ple	ase	e print or type (Form desig	ned for use on elite (12-pitch) typ	ewriter)						m Approved	. OMB No	2050-00
1	ا	UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator ID Number CALO	00021160		3 Emergency Respon		4. Manifest	<b>01</b> 6	425	0 S	KS
11		Generator's Name and Madir	•		<del>*                                    </del>	Generator's Site Addre	ss (If different t	han mailing addre	ss)			
П	١.	AIR LIQUIDE O	5C		•							
Ш	1.	8632 DICE ROA Santa fe spri	NGS	CA 90670								
Н	G	Senerator's Phone 562-	945-1383									
H		Transporter 1 Company Nam SAFETY-KLEEN						US EPAID		#VDAA	ΑΛΕΛΛ	20
Ш	L					<del></del>				TXROO	00309	<del></del>
Н		Transporter 2 Company Nam					-	U.S. EPAID				
Н	L.	TRIAD TRANSPO		<del></del>				1		OKD98	15887	91
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Ш	15	5 GENERATOR'S/OFFERO	R'S CERTIFICATION: I hereby declar ded, and are in all respects in proper of	e that the contents of this	consignment are	fully and accurately de	scribed above	by the proper ship	ping name,	and are das	srfied, pack	aged,
П		Exporter, I certify that the o	ontents of this consignment conform to	the terms of the attached	i EPA Acknowled	gment of Consent	-	•	export snip	ornent and r	an ne Pim	ary
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-	10	b Alternate Facility (or General	(ter)			Manifest Reference	Number					
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l\€	١ <sub>٢۵</sub>	cility's Phone			$\int$			ı				
		c Signature of Alternate Facilit	y (or Generator)					<u> </u>		Mon	th Day	Year
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DESIGNATED FACILITY	19	Hazardous Waste Report Ma	nagement Method Codes (i e , codes t	or hazardous waste treat	men disposal, ar	d recycling systems)						-1
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П	9a	9b. U.S. DOT Description	(including Proper	Shipping Name, Haz	zard Class, ID Num	iber,	L	10 Conta	ners	11. Total	12 Unit	13	Waste Cod	96
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# Certificate of Treatment/Recycling Air Liaune 05C MANIFEST NUMBER 000 201911 813 DATE RECEIVED 5-1-2007 The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County. When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is aliminated under both RCRA and Proposition 65. Upon request, DaMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated DeMENNO/KERDOON "Compliance Through Recycling" Date: 1.18.2007 Cyrus Poutrassanian Laboratory Manager 2000 North Alameda Street @ Compton @ California @ 90222 Telephone (310) 537-7100 D Facsimile (310) 639-2946 LITHO IN USA

**DICE 01148** 

	marked and labeled/placarded, and are in all respects in proper condition for transport according to applicate Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowled I certify that the waste minimization statement identified in 40 CFR 262 27(a) (if I am a large quantity generation).	ble international and national govern digment of Consent ator) or (b) (if) am a small quantify g	mental regulations If export ship	and are classified, packaged, ment and I am the Primary
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7-060-06 Please print or type Total signed for use on elite (12-pitch) typewriter) Form Approved. OMB No. 2050-0039 4. Manifest Tracking Number 2 Page 1 of 3 Emergency Response Phone 1 Generator ID Number UNIFORM HATARDOUS 000164559 CAL000021160 WASTE MANIFEST -800-468-1760 5 Generator's Name and Mailing Address nerator's Site Address (if different than mailing address) AIR LIQUIDE 05C 8832 DICE ROAD SANTA FE SPRINGS Generator's Phone 562-945-1383 CA 90670 U.S. EPAID Number 6 Transporter 1 Company Name TXR000050930 SAFETY-KLEEN SYSTEMS, INC U.S. EPA ID Number 7 Transporter 2 Company Name TRIAD TRANSPORT INC. OKD981588791 US EPAID Number 8 Designated Facility Name and Site Address SAFÉTY-KLEEN SYSTEMS, 1722 COOPER CREEK ROAD 000618 INC. DENTON, TX 76208 TXD077603371 940-483-5200 Facility's Phone 10 Containers 9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11 Total 12 Und 9a 13 Waste Codes and Packing Group (if any)) Туре Quantity Wt/Vol нм DM D001 OUTS X WASTE-AEROSOLS 2.1 UN1950 (ERG#126) 331 <del>801[]</del> GENERAL D005 **D006** X RO WASTE PAINT RELATED MATERIAL DM D001 3 UNL263 PG III (D001) (ER04126) D007 D008 OUTS 219H OUTS NON RCRA HAZARDOUS WASTE, SOLID DM P NONE 352 (PAINT BOOTH FILTERS) <del>1091</del> DM NONE 352 STUC NON RCRA HAZARDOUS WASTE, SOLID (WASTE OIL AND ABSORBENT MIXTURE) 1091 14 Special Handling Instructions and Additional Information SK TRCK#108520844 0002215524 SK AUTH'D TO USE SUBSECUENT CARRIERS: 40343, 41038, 81681, 82739, 86256 \*\*GENERATOR'S/OFFEROR'S CERTIFICATION\* I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent I certify that the waste minimization statement identified in 40 CFR 262 27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true Generator's/Offeror's Printed/Typed Name orrer 16 International Shipments Port of entry/exit: I Import to U.S. Transporter signature (for exports only) Date leaving U.S. 17 Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Transporter 2 Printed/Typed Name 10/1/14 18 Discrepancy 18a Discrepancy Indication Space Quantity \_\_ Residue Partial Rejection Full Rejection Manifest Reference Number U.S. EPAID Number 18b Alternate Facility (or Generator) Facility's Phone 18c Signature of Alternate Facility (or Generator) Day Year Month 19 Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) **DICE 01155** 20 Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Heart 18a Day

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DESIGNATED FACILITY TO GENERATOR

20 Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

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# Certificate of Treatment/Recycling

AIR LIOUID AMERICA

**FOR** 

MANIFEST NUMBER

000201911SKS

DATE RECEIVED

5/1/2007

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

Cyrus Pourhassanian Laboratory Manager Date: 5/7/2007

2000 North Alameda Street 🗆 Compton 🗅 California 🗅 90222 Telephone (310) 537-7100 🗘 Facsimile (310) 639-2946

**DICE 01161** 

**DESIGNATED FACILITY** 

7-088-06\_

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	16a. US DOT HAZARDOUS MATERIALS SH	PPER'S CERTIFICATION: This	is to certify that the above-r	amed materials are properly	classified, described paci	aged, marke	ed and labeled and are in P	raper
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	16b. NON-REGULATED SHIPPER'S CERTIF	ICATION: I certify the materials des	US (60) o quate		eral regulations for Tra	ansportatio	n or Disposal	1
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TRANSPORT	Printed/Typed Name	t of Materials	Signature				Month Day	Year
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L	20 Facility Owner or Operator Certification of	receipt of materials covered by the	nis form except as n	oted in Item 19	<del></del>	D	ICE 01167	_
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	- UI	NIFORM HAZARDOUS WASTE MANIFEST	1 Generator ID N	lumber CAL 00002	1160	2 Page 1 of	3 Emergency   1 - 800 - 4			4. Manifest	Tracking N	260	8 8	SKS
11	5	Generator's Name and Mailing	Address				Generator's Site	Address	(if different th	an mailing addres	ss)			
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$\parallel \parallel$		nerator's Phone 562-9	45-1383	C.n.	90870									
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$\  \ $		Designated Facility Owner or	Operator Certification	ation of receipt of hazardous	materials covere	ed by the manif	est except as not	ed in Item	18a				-	-
	Pnn	ted/Typed Name	Do	16		Sign	nature	. 1	1			Mon		y Year
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#### CERTIFICATE OF DISPOSAL

March 13,2007

AIR LIQUIDE 05C 8832 DICE ROAD SANTA FE SPRINGS, CA 90670

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number 000202608SKS/00020260 was received by U.S. Ecology, Inc., on 02/27/2007 . The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of by 02/27/2007 in accordance with permits and laws regulating this facility.

)

Reference Number: 07022602499-000202608SKS-1-1

Material: 3 55 GALLON PLASTIC (BATCH WASTE

Process: Solidification

Facility: U.S. ECOLOGY NEVADA, INC.

HWY 95 11 MILES S. OF BEATTY

BEATTY, NV 89003 EPA ID: NVT330010000

Waste Type: NON-RCRA WASTE

Customer: SAFETY-KLEEN SYSTEMS, INC.

Printed Name: MARK JOHN

Signature:

Title: ENV MANAGER

**GENERATOR'S INITIAL COPY** 

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20 Designated Faculity Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name

**DICE 01173** 

Month Day

	-	7-088-06 int or type ( mm desig	ried for use on cito	/12 autah) tunawatar)		/	You	U C	\$ FU	<u>_</u>	For	m Approved	d OMP No	2050 003
	UNI	ORM HAZARDOUS ASTE MANIFEST	1 Generator ID Num	CALOOOO21	160	2 Page 1	1-8	rgency Respons	1760	4. Manifest	Tracking N	umber 103		KS
1	AI 88 SA	nerator's Name and Mailin  R LIQUIDE 0: 32 DICE ROAI  NTA PE SPRII  rator's Phone	SC -	CA	90670		Generat	or's Site Addres	s (if different th	an mailing addre	ess)			
	SA	resporter 1 Company Nam PETY-KLEEN	SYSTEMS, I	NC						U S EPAID		TXROO	00509	30
	TR	INSPORTER 2 Company Named IAD TRANSPORT	RT INC.		<u> </u>			<u>-</u>		U S EPA ID		OKD98	158879	)1
		signated Facility Name an	3	AFETY-KLEEN 722 COOPER ENTON,	I SYSTE Creek	ens, i Road	NC.		76208	U S EPAID		TXD077	760337	71
	9a HM	<del></del>		apping Name, Hazard Cla	ss, ID Number	Γ,		10. Conta	iners Type	11 Total Quantity	12 Unit Wt./Vol	13	Waste Cod	les
GENERATOR -	X	WASTE AERO	SOLS 2.1	UN1950~( ERG	#1267				DM		P	D001	331	DUTS BOIN
GENE	х	RO WASTE P	AINT RELAT	ED MATERIAL 1) (ERG\$128	 i)				DM		P	D001	DC05	9000
		NON RCRA HA	AZARDOUS W	ASTE SOLIE		J-4 <sub>20</sub> q 9 as -7 Yes			DM		p	DO07	D008	DUTS 219H DUTS
$\ $		(PAINT BOO	th Pilters	)				12.58.4		, , ,	-		-	1051
		NON RCRA-HI (WASTE OIL	AZARDOUS W AND ABSOR	ASTE, SOLIE BENT MIXTUR	) (E)				DM		P	NOVE	352_	DUTS 1891
	14 S	pecial Handling Instruction	s and Additional Inform	ation SK TRCK4	108057	1786		00	022155	24	L		1	<u> </u>
	15. 2	AUTH D TO C GENERATOR'S/OFFEROI marked and labeled/placar Exporter, I certify that the c certify that the waste mini ator's/Offeror's Printed/Typ	R'S CERTIFICATION. ded, and are in all resp contents of this consign mization statement ide	I hereby declare that the ects in proper condition fo ment conform to the term	contents of the or transport ac s of the attach	is consignme cording to ap ed EPA Ackn ige quantity o	ent are fully a oplicable inte nowledgment	nd accurately demational and na of Consent	escnbed above tional governm	by the proper sh ental regulations	upping name		issified, pact am the Prin	nary
N-1-TW	16 in	ternational Shipments	Import to U	<u>.`</u> S		Export from	m U S	Port of e	intry/exit	<u> </u>			<u>.                                     </u>	<u></u>
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TR ANSPORTER	Trans	porter 1 Printed/Typed Nan	Maria			1	Signature		<u>*</u>			Mor	nth Day	Year
TRAN	Trans	porter 2 Printed/Typed Nan	ne				Signature	6				Mo	nth Day	Year
		screpancy Inscrepancy Indication Spa	ce Quantity	······································	Туре	-	E	Residue		Partial Rejo	ection		Full Re	jection
E	18b A	Iternate Facility (or Genera	ator)				Ma	inifest Referenc	e Number	US EPAID N	lumber			
FACIL		's Phone								1				
DESIGNATED FACILITY	18c S	ignature of Alternate Facili	ty (or Generator)								_	Mo	onth Da	y Year
DESIG	19 Ha 1	zardous Waste Report Ma	nagement Method Coo	les (i e , codes for hazard	lous waste trea	atment, dispo	osal, and rec	rding systems)		4				
		signated Facility Owner or	Operator Certification	of receipt of hazardous r	naterials cover			t as noted in Ite	m 18a			$\equiv$		
		I/Typed Name					Signature					Mo	<u> </u>	1)_
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DES	IGNATED I	FACILITY NAM	IE AND ADD	DRESS		SAFETY-K	LEEN	SYSTEMS,	INC.		CERTIF	Y THAT	NO MATERIAL CHARACTER	CHANG	E HAS OC	CURRED	JSA E	EPA I	ONO					AN Rev.
	•										MATERIA	ALS OR	IN THE PRO	CESS (	BENERATI	NG THE	TAT	EIDN	10.					E F
P	C	ASH 🗌	TOTAL RECEIV	/ED	APPL	LY PAYMENT TO	74.164	MANIFEST NO.	MARKET.	AGREE T	O PAY TI	HE ABO	VE CHARGES A SOVE AND ON	ND TO	BE BOUR	ID BY THE	TERMS	SAND	T	OTAL CH				PART 1367
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	in'	VOICE #	AMOUNT \$	INVOIC	CE#	AMOUNT \$				proper condition	ny enet the 6 on for transp	ionation so	ed materials are pro cording to the applic	perly class able requi	ested, packag letions of the	Department of	ra mbelec Transport	u, and are i		OTAL D	DUE	300	2	
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custo	MER REFEREN	ICE T		111			1.60	0.168.1286 St bow	2.				- + · - ·											

	WASTE MATE	-Kiren Erial profile	PROFILE # · 1.0B # □ 28 □ 26 □ 24 □ 20 □ 19
Customer N 2215524 Analytical Part N Sales Name GLORIA BRICENO Employee N		nai/ rmendoza@aafety-kleen.com	Location/Branch # 708806
	Kep is:	Check If Billing	
A CUSTOMER INFORMATION Generator AIR LIQUIDE 05C		_ , ,	
		0.11 4.44	
Facility Address (No PO Box) 8832 DICE ROAD			
	<u> </u>		
City/State/Zip SANTA FE SPRINGS / CA / 90870	<u> </u>	Billing Contact	-11
Technical Contact RAFAEL MOTA			FAX
Phone 562-945-1383 FAX 562-893-		Cmall	
NAICS # 28130000 🖸 CESOG 🗆 SOG 🗆 LO	QG EPA ID# C	CAL000021160	State 10ff
B. SHIPPING INFORMATION US DOT Shipping Name			
Hazardous Class/Division #UN	MA#	Packing Group	RQ
Size 5G Container Type: POLY		Quantity 1 F	requency ONE-TIME ONLY
C. GENERAL MATERIAL & REGULATORY INFORMA			
Name of Material OXYGEN SENSOR MICRO FU			
Process Generating the Material EXPIRED PRODUCT			
Ycs No	Ye	_	
Regulated or Licensed Radionetive Waste			vents of Concern List in section D
Regulated Medical/Infectious Waste		For Artesta MC Dass or	
□ ☑ Waste Subject to Benzene NESHAP regulatio	ns	thoxin-hated wastes with	vaste material contain, or is derived from, a F020-F023 or F027 waste codes?
TSCA Regulated PCB Waste List PCB level	in section D	State Hazardous Waste	List Codes 181
Regulated Ozone Depleting Substance	2	EPA Hazardous Waster	List Codes D002 D008
☐ ☑ CERCLA Regulated (Superfund) Waste	So	urec Code G G15 Form Code W	W319 Mgt Method H
D. MATERIAL COMPOSITION (Range Total > or =	100%) or ppm	E. REACTIVE CHARACTERIS	TICS Yes No Oxidize
OXYGEN SENSOR MICRO FUEL CELLS	100%	Yes No React Sulfides	
		Yes No React Cyanides	
		Yes No Water/Air (Pyruph	
		Elemental Constituents (ppm)	·
			NR A NR BI NR
		1 10	NR Ph >1ppm He NR
			Ag NR TI NR V NR
			otal Analysis @Generator Knowledge (neurning)
		F. PHYSICAL CHARACTERIS	
		Flash Point ºF (if <7:	
		73.<100   100-141	3°F) pH Range
		□ 142-<200	□ >10<<12.5
			iquid Viscosity eps 4 000 30,000
MSDS Attached Total	100%	% Sludge % 9	
			cific Gravity 1
G. COMMENTS			
THIS IS LIKE A BATTERY CONTAINING LIQUID PROP	FILED W/ PH OF	>12.5 DUE TO SHIPPING DESC	CRIPTION & INDICATED IT TO BE A SOLID
CUSTOMER RESTRICTIONS THE TO			The state of the s
H. GENERATOR'S CERTIFICATION			
I hereby certify that I am an nuthorized agent of the generator, and warrant complete and accurate, and that all known or suspected hazards of the mate	on behalf of the yeners	iter that the information supplied on this for	m and on any attachments or supplements hereto is
Information supplied on this form, that either Safety-Klean or the generaling	r may infunte further to	offine and exuluation in accordance with the minac need miscloseer - I usice that it the for	mpic icat results indicate a discrepancy williamy: storing and conditions of the contract between Safety-
Klean and the peneralar and that they profile confidentian for a be amended	acontdinkly		
Generator Signature Jeffelly 19014	Printed Nar	me and Title RAFAEL MOTA	- MANAGER Datc. 5/8/2007
Rev: 02/28/05			

Profile # 21/3669 User Dr. Write,

TS3M_	C398	VIEW REPORT	2007-01-24 P6 09.57.42
PRINT:	VIEW	REPORT USING PF KEY(S) OR TYPE SEARCH STRING,	PRESS ENTER
SEARCH	STRING:		
X	SORBENT	ADDED	
X	BIODEGR	ADABLE?	
X	EXEMPT	WASTE; IF YES, LIST REFERENCE 40 CFR	
_ X	STATE H	AZARDOUS WASTE	
X	EPA HAZ	ARDOUS WASTE	
STATE V	WASTE COD	ES: CA 221 TX OUTS1191	CTRY: USA
EPA WAS	STE CODES	: NONE	
<del></del>			
	PIRED	·	INUED ON NEXT PAGE
8XXXX-I	RXXXX	PREQUALIFICATION EVALUATION	PAGE 3 OF 6
OIL REC	COVERY SE	RVICEC	OMPLETED: 08/18/99
VACUUM	SERVICES		REVISED: 05/17/00
		*** SAMPLE MARKED FOR PURGE ***	RUN: 01/24/07
E	EXPIRED		
		CONTROL	#: 1935423-2
BRANCH	/SUBMITTE	R: 708806 LAB	#: 9935423-9

## Profile # 2113626 Oil + Absorbant

<u>TS3M</u>	C398			VIEW	REPOR'	Γ					07-01- .03.24		Р6
PRINT	: VIEV	N REPORT	USING	PF KEY	(S) OR	TYPE	SEARCH	STRI	ING,	PRESS	ENTER		
SEARC	H STRING:												
	X UHC IN	ADDENDU	1										
	X MEETS I	LDR STAND	ARDS										
	X PARTIAL	LLY MEETS	(FOR	LANDFI	LL ONL	Y)							
	X COMMING	GLED WAST	E										
X	SORBENT	r ADDED											
		RADABLE?											
X	EXEMPT	WASTE; I	F YES,	LIST .	REFERE	NCE 4	) CFR		279	)			
X	STATE F	HAZARDOUS	WASTE										
	X EPA HAZ	ZARDOUS W	ASTE										
STATE	WASTE COL	DES: MI C	21L	TX O	UTS489	TX 4	891	CA	352		CTRY:	USA	<u> </u>
1.5		SC 7	777									USA	
EPA W	ASTE CODES	S: NONE											
D. MA	TERIAL COM	1POSITION	: SIP				RMP	COMPO	DUND	DENOTE	D WITH	#	
1.	CHEMICAL	/PHYSICAL	CONST	ITUENT	S:								
NO	VOLATILE C	ORGANICS	DETECT	ED (<0	.1% EAG	CH		10	WT 8	5			

Profix # 2081761 Pant Book Filters

TS3M	C398			VIE	W REI	PORT						7-01-24 00.58	Р6
PRINT:	VIEW	REPORT	USING	PF KE	Y(S)	OR TY	PE S	SEARCH	A STRIN	NG,	PRESS E	NTER	
SEARCH	STRING:												
X	UHC IN A	ADDENDUM	1										
X	MEETS LI	OR STAND	ARDS										
X	PARTIALI	LY MEETS	(FOR	LANDF	ILL (	NLY)							
X	COMMING	LED WAST	E										
X	SORBENT	ADDED											
X	BIODEGRA	ADABLE?											
X	EXEMPT V	VASTE; I	F YES,	LIST	REFE	RENCE	40	CFR					
_X	STATE HA	AZARDOUS	WASTE	<u> </u>									
X	EPA HAZA	ARDOUS W	ASTE										
STATE W	VASTE CODE	ES: CA 3	52	TX	OUTS4	1091					C	TRY: USA	Α
Y EPA WAS	STE CODES:	NONE											
	ERIAL COME							RMP	COMPOU	<u> DNI</u>	DENOTED	WITH #	
1. (	CHEMICAL/E	PHYSICAL	CONSI	TITUEN'	TS:								
RESIDU	JE							97.	00	WT%	<del></del> ;		

# Profile# 2113670 Water Basci Paint

TS3M	C398		VIEW RE	PORT		2007-01-24 P6 09.54.28
PRINT:	VIEW RE	EPORT USING	PF KEY(S)	OR TYPE S	EARCH STRING,	PRESS ENTER
SEARCH	STRING:					
X	UHC IN ADE	DENDUM				
X	MEETS LDR	STANDARDS				
X	PARTIALLY	MEETS (FOR	LANDFILL	ONLY)		
X	COMMINGLED	WASTE				
X	SORBENT AD	DDED	_			
X	BIODEGRADA	ABLE?				
X	EXEMPT WAS	STE; IF YES	LIST REF	ERENCE 40	CFR	
X	STATE HAZA	ARDOUS WASTI	<u> </u>			
X	EPA HAZARI	OOUS WASTE				
STATE W	ASTE CODES:	CA 135	TX OUTS	1191		CTRY: USA
EPA WAS	TE CODES: N	NONE				
*** MIS	SING PREQUA	ALIFICATION	INFO		CONT	INUED ON NEXT PAGE
8XXXX-R	XXXX	PRI	EQUALIFICA	TION EVALU	ATION	PAGE 3 OF 6
OIL REC	OVERY SERVI	CE			C	OMPLETED: 08/20/99
VACUUM	SERVICES					REVISED: 05/17/00

### SAMPLE # 3435148 PEROSOL CANS.

TS3M	M269	VIEW REPORT	2007-01-25 P7
	_		12.53.58
PRINT:	VIE	REPORT USING PF KEY(S) OR TYPE SEARCH STRING,	PRESS ENTER
SEARCH	STRING:		
_ X	CERCLA	REGULATED (SUPERFUND) WASTE	
X	WASTE C	CONTAINS UHC'S/CONSTITUENTS OF CONCERN	
X	UHC IN	SECTION D	
X	EXEMPT	WASTE; IF YES, LIST REFERENCE 40 CFR	
X	STATE H	AZARDOUS WASTE	
X	ARTESIA	MS: DIOXIN-LISTED WASTE W/F020-F023 OR F02	
X	EPA HAZ	ARDOUS WASTE	
STATE V	WASTE COL	DES: TX OUTSBOIH CA 331	CTRY: USA
BRA WAS	STE CODES	: D001	
ORIGIN	CD: 1	SOURCE CD: G11 FORM CD: W801 SYSTEM C	:D:
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
D. MATI	ERIAL COM	POSITION: PAPER RMP COMPOUND	DENOTED WITH #
1. (	CHEMICAL/	PHYSICAL CONSTITUENTS:	
AEROS	OL CAN -	PAINT 100.00 PPM	
2. 1	ELEMENTAL	CONSTITUENTS:	

## Profile #211368 Neutralized Coustic Rinse Water

	TS3M	C398			VIEW	REPOR	T				7-01-24 05.12	P6
	PRINT:	VIEW R	EPORT US	SING P	F KEY(	S) OR	TYPE	SEARCH	STRING,	PRESS EI	NTER	
	SEARCH	STRING:										
	X	UHC IN AD	DENDUM									
	X	MEETS LDR	STANDA	RDS								
	X	PARTIALLY	MEETS	(FOR L	ANDFIL	L ONI	Υ)					
	X	COMMINGLE	D WASTE									
	X	SORBENT A	DDED									
	X	BIODEGRAD	ABLE?									
	X	EXEMPT WA	STE; IF	YES,	LIST F	EFERE	NCE 40	CFR				
	X	STATE HAZ	ARDOUS V	WASTE								
	X	EPA HAZAR	DOUS WAS	STE								
$\subset$	STATE W	ASTE CODES	: CA 122	2	TX OU	TS119				C:	rry: USA	Α
٤	EPA WAS	TE CODES:	NONE									
	*** MIS	SING PREQU	ALIFICAT	TION II	NFO				CONT	INUED ON	NEXT PA	AGE
	8XXXX-R					CATIC	N EVAI	LUATION		PAGE	3 OF	6
		OVERY SERV	ICE						C	OMPLETED:		799
	VACUUM	SERVICES								REVISED:	03/01/	/00

EPA Form 8700-22 (Rev 3-05) Previous editions are obsolete.

18c Signature of Alternate Facility (or Generator)

Facility's Phone:

Printed/Typed Name

DESIGNATED FACILITY TO GENERATOR

Month

**DICE 01183** 

Day

Month Day

Signature

19 Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

20 Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

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$\Pi$	•	nerator's Name and Mailin	=				Generat	OFS Site Address	(ir amerenii u	ian mailing accres	is)			
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		INSPORTER 2 Company Named IAD TRANSPORT							•	US EPAID N		OKD98	158879	)1
$\Pi$	8 De	signated Facility Name and		AFETY-KLEE	N SYSTE	MS, IN	₹C.	0	00618	U.S EPAID N	lumber			
	Facilit	940-46 ty's Phone	83-5200 E	1722 COOPER DENTON,	CREEK 1	ROAD		TX	76208	1		<b>T</b> XD07'	760337	11
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	20. Des	signated Facility Owner or	Operator Certification	of receipt of hazardous r	naterials covered	by the man	ifest excep	t as noted in Iten	18a					
		/Typed Name					gnature					Mo	onth Day	Year
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20 Designated Facility Ow

GENERATOR

DESIGNATED

Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

DESIGNATED FACILITY TO GENERATOR

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П	5, Ge	perator's Name and Mailin	ng Address 5C	•		Gener	ator's Site Address	(if different th	an mailing addres	ss)			
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## Certificate of Treatment/Recycling

AIR LIQUID AMERICA

**FOR** 001048044JJK

MANIFEST NUMBER

DATE RECEIVED \_\_\_\_11/8/2006

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

11/20/2006

Date:

Cvrus Pourhassanian

Laboratory Manager

2000 North Alameda Street @ Compton @ California @ 90222 Telephone (310) 537-7100 @ Facsimile (310) 639-2946

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© 2004 GOBS 441CN

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20 Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name

**DICE 01195** 

DICE 01196

20 Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the menifest except as noted in Item 18a

Printed/Typed Name

Signature

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19. Hazardous Waste Report Management Method Codes (I.e., codes for hazardous waste treatment, disposal, and recycling systems)

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TLAS COMMISSION ON ENVIRONMENTAL QUALITY - P.O. Box 13087
Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039

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	3. Generator's Name and Mailing Address 8832 DICE ROA	AIR LIQUIDE 050 D				84871
	SANTA FE SPRI 4. Generator's Phone (562) 945-13	83				
	5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	6. US EPA ID N		Transport of the first		109
	7. Transporter 2 Company Name	NC DKDORKE	Number	Water hours		
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	20. Facility Owner or Operator: Certification of	f receipt of hazardous materials covered	by this manifest of	except as note	ed in item 19.	Date
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**TEXAS COMMISSION ON** P.O. Box 13087 Austin, Texas 78711-3087

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A ON OTHER PRODUCTION	1. Generator's US EPA ID No. CAL 0000 21160	Manifest Document No.	2. Page 1 of	Information is not require		
3. Generator's Name and Mailing Address	AIR LIQUIDE 05C	<del></del>		The second second	tumber	
8832 DICE ROA	D				94871	
SANTA FE SPRI 4. Generator's Phone ( 562) 945-13.	8.3					
5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	6. US EPA ID  INC TXR00005					
7. Transporter 2 Company Name	8. US EPA ID	Number				
9. Designated Facility Name and Site Address	000618 10. US EPA ID	Number				
SAFETY-KLEEN SYSTEMS. 1722 COOPER CREEK ROAI						
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## Certificate of Treatment/Recycling

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FOR 25026724 DATE RECEIVED 6/14/2006

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"
6/26/2006

Cyrus Pourhassanian Laboratory Manager

> 2000 North Alameda Street 🖸 Compton 🗘 California 🗘 90222 Telephone (310) 537-7100 🗘 Facsimile (310) 639-2946

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TEXA: COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087
Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No 2050-0039

A	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA CAL 00002	21160 · P	anifest iment No	2 Pag of	1		the shaded areas ed by Federal law.
	3. Generator's Name and Mailing Address ROA	AIR LIQUIDE D	V3C		A. St	to Marillan Foo	24	3472
	SANTA FE SPRI 562 945-13		A 90670		· M			Sir Vicinia
	4. Generator's Phone ( 5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	INC 6.	US EPA ID Number		c.		0.0	
	7. Transpo <del>rter 2 Com</del> pany Name	18. J	US EPA ID Number	· · ·	1.16	70 y 20 40 40 40 20 20		
	9. Designated Facility Manne and Site Address	s 000618 10.	US EPA ID Number	C4/.		12. 12.		
	1722 COOPER CREEK ROADENTON, TX 76	D 208	140000000000000000000000000000000000000					
	11A. 11. US DOT Description (including Pro	<del></del>	XD077603371 izard Class, ID	12. Conta	iners	13 Total	14 Unit	41
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Z	b. NON RERA HAZAR	DOUS WASTE,	LIQUID		M	•	P	eutsl101
OR -	c. NON RCRA HAZAR	DOUS WASTE	LIQUID		M.C.		D	
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	Additional Constitution of Management Union	ACCOUNT TO THE	) NONE 122 ]	<b>#</b> )	K. Ha	ndling Codes for	Wastes	HIHI
	15 Special Handling Instructions and Addition EMERGENCY RESP 800-46 SK CORP AUTH D TO USE	8-1760(24 HR	l). IF UNDELI CARRTERS: 40	[VERAE ]343.4	LE 103	76606 00 RETURN T 8,81681, C: 378	O GE 8273	NERATOR. 9.86256
	16 GENERATOR'S CERTIFICATION: I hereby do classified, packed, marked, and labelled/placa government regulationa, including applicable s if I am a large quantity generator, I certify that economically practicable and that I have selecture threat to human health and the environithe best waste management method that is averaged.	ded, and are in all respects ate regulations.  I have a program in place ted the practicable methoo nent; OR, if I am a small que	s in proper condition for trail to reduce the volume and d of treatment, storage, or uantity generator, I have m	nsport by high I toxicity of industrial	ghway a waste g rently a	according to applications are according to the de available to me whi	able inte gree I h ch minin	mational and national ave determined to be nizes the present and
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TRANSPORTER	18. Transporter 2 Acknowledgement or Rece	pt of Materials	MAG					06 (3 06) Date
T E R	Printed / Typed Name	2	Signature (	7301	are	>√)	k	Month Day Year
FACI	19 Discrepancy Indication Space			<u></u>	Υ	D	ICE	01209
	20 Facility Owner or Operator. Certification of	of receipt of hazardous n	materials covered by this	manifest	except	as noted in item	19 「	Date
٠ و	Printed / Typed Name	Manno.	Signatura					Month Day Year
one or	<b>₹QEFEV \$9/90020</b> 9021437	B X 0 0 6 1 3 3 4 3	Fink-TSD-Facility	Yellow-Tra	nsoort			LET COOK

TEXAS OMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Fokas 78711-3087



PI	Base	UNIFORM HAZARDOUS		anifest	2 Pag	Form Approved ge 1 Inform		the shaded areas
A	L	WASTE MANIFEST	CALUGOZIIO	ment No,	of	1 is no	t require	d by Federal law
	3.	Generator's Name and Mailing Address A	D D		A. Sta			
	4.	SANTA FE SPRI 562 945-13 Generator's Phone (						
$\  \ $	5.	Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	INC   6. US EPA ID Number TXR000050930		F			4.3010
	7.	Transporter 2 Company Name	8. US EPA ID Number	· ·				
Ш	9.	Designated Facility Name and Site Address	s 1NC. 10. US EPA ID Number	· ·				
		1722 COOPER CREEK ROADENTON, TX 76	ND			12,2,000		
	L		TXD077603371	•			description and	
		1A. 11. US DOT Description (including Proposition Number and Packing Group)	per Shipping Name, Hazard Class, ID	12. Conta No.	iners Type	13, Total Quantity	14. Unit Wt/Vol	Ware No.
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	16	classified, packed, marked, and labelled/placarc government regulations, including applicable sta If I am a large quantity generator, I certify that I economically practicable and that I have select	I have a program in place to reduce the volume and ted the practicable method of treatment, storage, or d tent; OR, if I am a small quantity generator, I have ma	sport by hig toxicity of v isposel cur	ghway a waste ge rently a	enerated to the divallable to me wh	cable inter egree I ha iich minim	national and national ave determined to be nizes the present and
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Ř	19	Discrepancy Indication Space						
FACI					•		E 012	10
L T T Y	20.	Facility Owner or Operator Certification of	f receipt of hazardous materials covered by this	manifest e	except	as noted in item	19.	Data
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039

Pie	ase prii	nt or type. (Form designed for use on elite (12	-pitch (ypewnter.)				Form Approved	ONI DIVIC	2050-0039
A		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA CAL 0000 2	1160 198	Manifest surpent No.	2 Pa of			the shaded areas od by Federal law
	3. Ge	nerator's Name and Mailing Address 8832 DICE ROA	AIR LIQUIDE O	050		A St		10.75	14829
		SANTA FE SPRII 562 945-13		A 90670					
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	11A. HM	11. US DOT Description (including Pro Number and Packing Group)	per Shipping Name, Ha	azard Class, ID	12 Cont No.	ainers Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
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GEN				· · · · · · · · · · · · · · · · · · ·	<u> </u>	) in		P	
GENERATOR		b. NON RCRA HAZARI	OUS WASTE,	LIQUID	7.	DM		P	71191
O R	ļ <u>.</u>	c. CORROSTVE LIQU	ID ACIDIC	INORGANIC			· · · · · · · · · · · · · · · · · · ·		
		C. CORROSIVE LIQUEN.O.S. (NITRIC ACT	D, SULFURÍC ERG#154)	ACID)	100	DM	00380	P	OUTS1191
		d. NON-RCRA HAZARI	DOUS WASTE,	SOLID (DEBR	IS)	DM		P	<b>2013319</b> 1
	Fig. 600	Townson the state and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state					idero Codes for		Lead Above
	ΕM	pecial Handling Instructions and Addition ERGENCY RESP 800-468 CORP AUTH 'D TO USE	3-1760(24 HR SUBSEQUENT	) IF UNDER	[VERĀE 0343.4	LE 103	8.81681.6	O GE 3273	NERATOR. 9.86256
	cla go If I ec fut	ENERATOR'S CERTIFICATION: I hereby deasified, packed, marked, and labelled/placar evernment regulations, including applicable stam a large quantity generator, I certify that onomically practicable and that I have selecture threat to human health and the environnes best waste management method that is ava	ded, and are in all respects ate regulations. I have a program in place ted the practicable methon nent; OR, if I am a small q	s in proper condition for tra to reduce the volume and of treatment, storage, or quantity generator, I have r	ansport by h  Id toxicity of  disposal cu	ighway i waste ( irrently i	according to applic generated to the de available to me wh	able inte egree I h ich minir	ernational and national have determined to be mizes the present and
$\bigvee$		inted / Typed Name		Signature			<del></del>		Month Day Year
T	17. Tr	Anta MACIAS  ansporter 1 Acknowledgement of Recei	ot of Materials	anda m	repas				00 5 16 Date
TRANSPORTER		inted / Typed Name		Signature	/				Month Day Year
POR	_	ansporter 2 Acknowledgement or Recei	pt of Materials						Date
E R	Pi	inted / Typed Name		Signature	4		(D)		Month Day Year 51706
FAC	19. Di	screpancy Indication Space						DICE	01212
FACILITY	20. Fa	cility Owner or Operator: Certification of	f receipt of hazardous r	materials covered by th	is manifest	except	as noted in item	19 r	0-4-
Y	Pr	inted / Typed Name	Ka. U.	Signeture		<del></del>			Date  Month Day Year
		L#EV <b>ASOUR</b> D2071644 L# ~ <del>A)00022945</del> 77	B)00011367	Pink is Facility	Xellowify 08546	2	D)0040	ators f	151 000 151 000 171

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087
Austin, Texas 78711-3087

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Form Approved. OMB No 2050-0039

A	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CAL 00002116	Manifest Document N	2. Page 1 Information is not requ	in the shaded areas ired by Federal law.
			<u> </u>		
	SANTA FE SPRIN 562 945-138	igs . CA 90	670		
	5. Transporter 1 Company Name		EPA ID Number		
	SAFETY-KLEEN SYSTEMS, 7. Transporter 2 Company Name		PA ID Number		<b>3.017-3640</b>
	O. Designated Facility Name and Site Address	000618 40 49	CDA ID Musshan		
	9. Designated Faculty Name and Site Address SAPETY - RUEEN SYSTEMS 1722 COOPER CREEK ROAL DENTON, TX 762	108	EPA ID Number		
	114 US DOT Description Graph disc Description	<u> </u>	7603371	ntainers 13. 14	
	11A. 11. US DOT Description (including Prop HM Number and Packing Group)	ber Snipping Name, Hazard Ci	ASS, ID No.	Type Total Un Quantity WtA	
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EN			· ·		
GENERAT	b. NON RCRA HAZARD	<u>ous</u> waste; tiqu	10	DM P	
Ť O R	21-			<del></del>	
	N.O.S. (NITRIC ACI 8 UN3264 PG III (E	D, ACIDIC, INOR D, SULFURIC ACI	GANIC, D)	DM VA P	OFFEL191
	d NON-RCRA HAZARD	OUS WASTE, SOLI	D_(DEBRIS.)	DM P	
:				C Handling Codes for West	
		March notes 13			
	15. Special Handling Instructions and Addition ENERGENCY RESP 800-468 SK CORP AUTH D TO USE	SUBSEQUENT CARR	IERS: 40343.	107255432 0002- BLE RETURN TO G 41038,81681,827 7802 C: 180813	39.86256
	16. GENERATOR'S CERTIFICATION: I Newby dec classified, packed, marked, and labelled/placard government regulations, including applicable state if I am a large quantity generator, I certify that economically practicable and that I have select future threat to human health and the environment the best waste management method that is available.	led, and are in all respects in properts in properts in groutstions. I have a program in place to redured the practicable method of treats ent; OR, if I am a small quantity greats.	or condition for transport by the the volume and toxicity ment, storage, or disposal	highway according to applicable in of waste generated to the degree currently available to me which m	international and national I have determined to be inimizes the present and
V	Printed / Typed Name	Signat	ure		Month Day Year
TR		ot of Materials			Dafe
TRANSPORTER	Printed / Typed Name	Signat	ure	•	Month Day Year
P O R	18. Transporter 2 Acknowledgement or Receipt	ot of Materials	70		Date
E R	Printed / Typed Name	Signat	ure		Month Day Year
,FAC-	19. Discrepancy Indication Space			DICE	01213
40-1-FY	20. Facility Owner or Operator: Certification of	receipt of hazardous materials	s covered by this manife	st except as noted in item 19	
٧	Printed / Typed Name	Signat	ure		Month Day Yea
rcı	ERROLOEVADOCO 2071644 SMPL# A)0002294577	B)00分钟93号编编 Pinl B)0002113670	<sup>с-TSD</sup>	ingsporter Gegan Congressor 64 D)004008	

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087



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Form Approved OMB No 2050-0039

À	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CAL 0000 21 16:0	Manifest Document No	2. Page 1 of 1		n the shaded areas ed by Federal law
	3. Generator's Name and Mailing Address 8832 DICE ROA	AIR LIQUIDE 050 D			S 0122	
	SANTA FE SPRI 562 945-13	NGS CA 9067 83	0	B. Stello Ger		
	4. Generator's Phone ( ) 5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,		D Number		porters ID 8	7109 0 669-5840
	7. Transporter 2 Company Name	8. US EPA I	D Number	D. Transpose E. State Trans	porters ID	457/
	9 Designated Facility Name and Site Address		552425 D Number	C State Sal	a Pierre 30	626911600
	9. Designated Facility Name and Site Address SAFETY - RIVERN SYSTEMS, 1722 COOPER CREEK ROAL DENTON, TX 76:		D 1101111001	H Facility's P		· Paragraphy
		TXD0776	<u> </u>	940 48	3-5200	
	11.A. 11. US DOT Description (including Prop HM Number and Packing Group)	per Shipping Name, Hazard Class, II	D 12 Conta	Type To		Waste No.
GE	a. WASTE CORROSIVI X INORGANIC N O S UN3266 PG II (ERG	E LIQUID, BASIC, (SODIUM HYDROXIDE #154)	) 8	DM	Р	HOLLSTIO
NERAT	NON LCRA HAZAN	Dows Whate, Liquid	po (	DMOOG	160 8	<b>૦</b> ૦ મળા
PR	C.	yous Whate, Soul		DM coc		mute 409!
	d.					
	J. Additional Descriptions for Majorials Listed:	THE ICHWASS		K Hending C	odes for Wastes	Listed Above
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	15. Special Handling Instructions and Addition EMERGENCY RESP 800-46 SK CORP AUTH D TO USE	8-1760(24 HR) IF SUBSEQUENT CARRIE	MFST R/T# UNDELIVERA RS: 40343, 1700 B:	BLE RETI 41038.81	07 0002-: JRN TO G 1681,827 <b>3<i>27</i>47</b>	2155-24 ENERATOR. 39,86256 D:
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby dec classified, packed, marked, and labelled/placard</li> </ol>	led, and are in all respects in proper con-	nt are fully and accurate dition for transport by hi	Assembed above ghway according	ve by the proper s to applicable inte	hipping name and are emational and national
	government regulations, including applicable sta If I am a large quantity generator, I certify that i economically practicable and that I have select future threat to human health and the environm the best waste management method that is avail	have a program in place to reduce the ed the practicable method of treatment, ent; OR, if I am a small quantity general	storage, or disposal cu	rrently available t	to me which minii	nizes the present and
V	Printed / Typed Name JUAN BUE UPOS	Signature	m Pari	9		Month Day Year
T R	17. Transporter 1 Acknowledgement of Receip					Date  Month Day Year
TRANSPORTER	Printed / Typed Name		16			04/906
RTE	18. Transporter 2 Acknowledgement or Receip	of of Materials	411	1. 6.		Date Month Day Year
R	19. Discrepancy Indication Space	une /	1100	un	<u>-</u> <u>-</u>	04 2106
FACI		<u> </u>				01214
L   T Y	20 Facility Owner or Operator Certification of	receipt of hazardous materials cover	ered by this manifest	except as note	d in item 19	Date
	Printed / Typed Name	Signature	Kosh	N		Month Day Year
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087
Austin, Texas 78711-3087



Austin, Texas 78711-3087
Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form	Annrowed	OMB No.	2050-0039

Ā	Γ	UNIFORM HAZARDOUS	1. Generator's US EP	· · · - ·	Manifest		ige 1 Ir		in the shaded areas
小	Ļ	WASTE MANIFEST	CALOOOO		Document	<u>-                                    </u>			red by Federal law.
		Generator's Name and Mailing Address SANTA FE SPR 56 2 945-1	AD INGS	CA 90670					
	_	Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	INC 6.	US EPA ID I					TO STORY
	7	Transporter 2 Company Name	8.	US EPA ID I	Number		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
	9	Designated Facility Name and Site Address SAPETY - KLEEN SYSTEMS 1722 COOPER CREEK ROLDENTON, TX 76	D 208	US EPA ID I					
	L			TXD07760:	3371		21.51.25		
		IA. 11. US DOT Description (including Pr Number and Packing Group)	oper Shipping Name, H	lazard Class, ID	12. Co No.	ntainers Type	13 Total Quantity	14 Unit Wt/Vo	CORPORATION AND AND AND AND AND AND AND AND AND AN
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	15	Special Handling Instructions and Addition  EMERGENCY RESP 800-4  SK CORP AUTH D TO USI	onal Information  56-1760(24 E  SUBSEQUENT  SKDOT	CARRIER	MFST R/TENDELIVED S: 40343 ZOO B:	APLE	38, 616	N TO 2	2155-24 ENERATOR. 59,86256 D:
	16	GENERATOR'S CERTIFICATION: I hereby discissified, packed, marked, and labelled/place government regulations, including applicable if I am a large quantity generator, I certify the economically practicable and that I have sele future threat to human health and the environ the best waste management method that is av	rded, and are in all respect state regulations. It I have a program in place cted the practicable methoment, OR, if I am a small	cts in proper condition ce to reduce the vo- od of treatment, sto- quantity generator,	on for transport by lume and toxicity rage, or disposal	highway of waste currently	according to a generated to a available to m	applicable in the degree I se which mir	ternational and national have determined to be nimizes the present and
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TR	17	. Transporter 1 Acknowledgement of Rece	upt of Materials		111				Date
TRANSP		Printed / Typed Name		Signature	1				Month Day Year
è	18	. Transporter 2 Acknowledgement or Reco	upt of Materials		7. "				Date
ORTER		Printed / Typed Name		Signature					Month Day Year
FACI		Discrepancy Indication Space							01215
L   T	20	Facility Owner or Operator. Certification	of receipt of hazardous	materials covere	d by this manife	st excep	ot as noted in	ıtem 19	
Ÿ		Printed / Typed Name		Signature					Date  Month Day Year
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No 2050-0039

AT	UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifes		1	ation in the si	
ΛL	WASTE MANIFEST	· CAL000021160	Document		<b>+</b>	required by	
	3: Generator's Name and Mailing Address 6 8 3 2 DICE ROAL	IR LIQUIDE 05C	_				
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Ш	562 945-138	GS CA 906 3	5 / 0	44			
	. Generator's Phone ( )	- 10.5	TO 4 10 Al h		1		
	5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,		EPA ID Number 0050930	3 7. %			
15	7. Transporter 2 Company Name		PA ID Number		2 - <del>1</del> 3	1/2	
	TRIAD	10KD98	1588791		7.36 %	35 . Val	
9	Designated Facility Name and Site Address	000618 10. USE	PA ID Number			- 40	
П	1/22 COOPER CREEK RUML						
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11	11A. 11. US DOT Description (including Pro	<u></u>	<del> </del>	Containers	13.	14.	
	HM Number and Packing Group)	on onipping Hame, Hazard Cla	100, 10	lo. Type	Total Quantity	Unit Wt∕vol	radio está
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Ш	d. NON RCRA HAZARD	OUS WASTE, SOLID	<b></b>			\$24 <u>0</u>	
$\ \cdot\ $			1.	PM		P 52	
	Additional Descriptions (N. Alemania)			369 S	and the second	District Control	Above
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11	5. Special Handling Instructions and Addition EMERGENCY RESP 800 - 468	-1760(24 HP) TF	' IINDEL TUED	DRIF D	5762 000	CENEDA	ת חידת
	SK CORP AUTH D TO USE	SUBSEQUENT CARRI	ERS: 40343	1,41038	3,81681,8	2739,86	256
		SKDOT# A:	<del>7397</del> B:	37797	C: 3780	2 D:3	7797
$\Pi'$	6 GENERATOR'S CERTIFICATION: I hereby de classified, packed, marked, and labelled/placar						
П	government regulations, including applicable st ff! am a large quantity generator, I certify that		e the volume and toxic	ity of waste o	penerated to the de	aree I have det	armined to be
П	economically practicable and that I have select future threat to human health and the environment	ed the practicable method of treatm	nent, storage, or dispos	sal currently a	available to me wh	ch minimizes the	e present and
Ш	the best waste management method that is available		merator, i mave made a	good later e	non to minimize m	y waste generali	OII AITO SEIECE
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Ţ 1	7. Transporter 1 Acknowledgement of Recei	t of Materials			J	6	Date
A	Printed / Typed Name	Signatu	ire			Month	
<u> </u>	8. Transporter 2 Acknowledgement or Recei	t of Motorials	Water		<del></del>	1941	05-06 Date
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19	9. Discrepancy Indication Space		<del>,</del>				
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2	O Facility Owner or Operator Certification of	receipt of hazardous materials	coyered by this man	nifest except	as noted in item	19.	
20		·		nifest except	as noted in item		Date
20	Facility Owner or Operator Certification of	receipt of hazardous materials		nifest except	t as noted in item	19.	Date Year

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087

Austin, Texas 78/19-3087 \$ -- +-



7-088-06

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039

A	UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the	
小	WASTE MANIFEST	· CAL000021160 · · ·	المح الما المادات	of	is not required t	by Federal law.
	3. Generator's Name and Mailing Address A 8832 DICE ROAD	IR LIQUIDE 05C				
	SANTA FE SPRIN 562 945-138 4. Generator's Phone (					
$\{\}$	5. Transporter 1 Company Name	6. US EPA ID N	umber			
$\  \ $	SAFETY-KLEEN SYSTEMS.	INC TXROPOSSO	30			
	7. Transporter 2 Company Name	8. US EPA ID N	umber		1.00	
$\ $	9. Designated Facility Name and Site Address SAPETY - KLEEN SYSTEMS,	0006 18 10. US EPA ID No	umber			
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	11A. 11. US DOT Description (including Prop HM Number and Packing Group)		12. Conta	ainers 13	14.	
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	16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the material	als described above on this for	n are not subject to fed	eral regulations for Tran	sportation or Dis	posal	
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	4. Shipper's Phone ( 562 945-1383		· · · · · · · · · · · · · · · · · · ·						
	5. Transporter 1 Company Name SAFETY-KLEEN SYS. INC.	6   ඇ	US EPA ID Numi <b>XROOGO509</b> :		A. Transporter's	Phone 669-	240		
	7. Transporter 2 Company Name	8	US EPA ID Numi		B Transporter's		1.4.0		
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	16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CE	RTIFICATION: "This is to	certify that the above-named in	naterials are properly	classified, described, peo	kaged, marked	and labeled and	are in prop	per
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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

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Ā	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA I CAL 0000 2	116.0	anifest iment No.	2 Pag of	l is not	required	he shaded area by Federal law		
	3. Generator's Name and Mailing Address AIR LIQUIDE 050  SANTA FE SPRINGS  CA 90670  562 945-1383					A. State Manifest Decument Number \$ 01249471  B. State Generator's ID				
	4. Generator's Phone ( 5. Transporter 1 Company Name SAFETY - KLEEN SYSTEMS, 7. Transporter 2 Company Name	INC 6. T	TXR 000050930 US EPA ID Number				ंठ छ छ	703.8		
	9. Designated Facility Name and Site Address 1722 COOPER CREEK ROA DENTON, TX 76	1000618 10. INC.	0 98/. 58.8.7.9 US EPA ID Number	6/			///·Y	4-4751		
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	11A. 11. US DOT Description (including Pro HM Number and Packing Group)	oer Shipping Name, Haz	ard Class, ID	12. Conta No.	uners Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.		
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	15. Special Handling Instructions and Addition EMERGENCY RESP 800-46 SK CORP AUTH D TO USE	8-1760(24 HR	). IF UNDEL CARRIERS: 4	IVERĀI 0343,	31.E	8,81681,	O GEI	VERATOR.		
	16. GENERATOR'S CERTIFICATION: I hereby declassified, packed, marked, and labelled/placard government regulations, including applicable strif I am a large quantity generator, I certify that economically practicable and that I have select future threat to human health and the environm the best waste management method that is available.	ted, and are in all respects ate regulations I have a program in place ed the practicable method ent; OR, if I am a small qu	in proper condition for tra- to reduce the volume and of treatment, storage, or antity generator, I have m	nsport by hi I toxicity of disposal cu	ghway a waste g rrently a	enerated to the devailable to me white	able intern gree ( hav ch minimiz	ational and national re determined to be zes the present and		
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T R	17. Transporter 1 Acknowledgement of Receip Printed / Typed Name		Signature		<i>7] [</i>	·		Date fonth Day Year		
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RTER	Printed / Typed Name K. Dea	<del></del>	Signature / Do	asm			_	Ionth Day Year 1コントト		
FAC-	19. Discrepancy Indication Space	V	7	<del> </del>		D	ICE 01	1221		
-L-FY	20. Facility Owner or Operator Certification o	f receipt of hazardous m	aterials covered by this	s manifest	except	as noted in item	19.	Date		
'	Printed / Typed Name	Mama !	side the		·		Me	onth Daid Vase		

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13987—Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12-pitch) typewriter

Form Approved OMB No 2050-0039

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$\ $	3. Generator's Name and Mailing Address AIR LIQUIDE OSC										
	4. G	SANTA FE SPRINGS 562 945-1383 ienerator's Phone (	CA 90670	CA 90670							
$\ $	5. T	ransporter 1 Company Name SAFETY-KLEEN SYSTEMS, INC	6. US EPA ID Number TXR000050930			Married Landon	1 124				
	7. T	ransporter 2 Company Name	8. US EPA ID Number	<del></del>							
	} ]	estimated Facility Name and Site Address 000618 AFETY-KLEEN SYSTEMS, INC. 1722 COOPER CREEK ROAD DENTON, TX 76208	0. US EPA ID Number								
	11A HM	-	e, Hazard Class, 1D	12. Conta	ners Type	13. Total Quantr		14. Unit Wt/Vol	Manual.	•	
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NERATO		b. Non RCRA HAZARDOUS WAST	E, SOLID	001	DM	001	7.6	P			
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	15. Special Handling Instructions and Additional Information MPST R/Te106976583 0002-										
	15. Special Handling Instructions and Additional Information MPST R/Talo6976583 0002-2155-24 EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR. SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 40343,41038,81681,82739,86256 SKDOT# A: 7397 B: 37797 C: 37802 D: 37797										
	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								national d to be ent and		
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ди Арргі Физірпіп	nmental Protection Agency 2050–0039 (Expires 9-30-99) http://ppe.fr.designed for use on elite (12-pit	ich) typ <b>ij</b> rcil <b>e</b> 88 –	See Instru	ctions on back	of page	6.		nt of Toxic Substances Conf acramento, California			
4	UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's US		Manifest Documen		2 Page 1		in the shaded areas red by Federal law			
17:	3. Generator's Name and Mailing Address 8832 DICE ROAD	AIR LIQU		1	6 7 A. State /	Manifest Document i		4355767			
	SANTA FE SPRINGS CA 90670					B. Stode Generator's ID					
	5 Transporter & Company Name SAFETY-KLEEN SYSTEM:	C. State Pransporter's ID.[Reserved] D. Transporter's Phone									
	7 Transporter 2 Company Name	8 US EPA ID Number	<u>-                                    </u>		E. Star Transporter / Di Brancos						
	9 Designated Facility Name and Site Address	050100	10 US EPA ID Number		G. State	ocility i ID	P350	<del></del>			
1 12	DEMENNO / KERDOON 2000 NORTH ALEMEDA STREET CATO80013352 COMPTON CA 90222					310 537-7100					
	11. US DOT Description/Uncluding Proper Shippi	<del> </del>	ass, and ID Number)	12 Co	ntainers Type	13 Total Quantity	14 Unit	I. Waste Number			
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ENE	THIS WASTE STRE			, , ,	-			State EPA/Other			
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2	15 Special Handling Instructions and Additional Information  MFST R/TELO6964394 0002-2155-24  EMERGENCY RESP 800-468-1750(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.  SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.										
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	marked, and labeled, and are in all respects  If I am a large quantity generator, I certify t	that I have a program	in place to reduce the vo	lume and toxicity of w	aste generat	ed to the degree ! I	nave determin	ed to be economically			
	practicable and that I have selected the practicable to me and that I can afford available to me and that I can afford tripled (Typed Name)							gement method that is			
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ĭ	OF ORT	erek	<b>LOOKECEW</b>	ED 4	774		LONS				
i	O Facility Owner or Operator Certification of re	ceipt of hazaldous ma	aterials covered by the are	Shell exception name in	Litem 19		•	. /			

Yellow TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087



LIA	ase	print or type. (Form designed for use on time (12		F04 10 41	Manufact		Ponn Approved. (					
A		UNIFORM HAZARDOUS WASTE MANIFEST		0021160	Manifest - Pocument	of of	1 is not	required	he shaded areas by Federal law.			
	3. Generator's Name and Mailing Address AIR LIQUIDE 05C // 8832 DICE ROAD						A State Manifest Discurrent Number \$ 01249249					
		SANTA FE SPR 562 945-1	CA 9067	)	8.5	B 9/16/2008						
	4. Generator's Phone (						C. Shiri (minimum) in . 87109					
								900	569-5840			
	7.	Transporter 2 Company Name			03 ( UL) 1 ×							
	9.	Designated Facility Name and Site Address										
		1722 COOPER CREEK ROADENTON. TX 76	1,200									
	L			TXD0776	_ <u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;</u>		940 463-5200					
	11 H		per Shipping Name	, Hazard Class, ID	12. C No	ontainers . Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.			
		a. WASTE AEROSOLS	2 1 UNI	950 (ERG#	26 1	DMI		P	ining on u			
GWZWR	_					-   5"		- A	001284JH			
ERATO		b. RO WASTE PAINT X 3 UNI263 PG III (	RELATED   DOO1) (ER	MATERIAL G#128)	00	/ DM	90460	P	OUTS219H			
R		C. WASTE AEROSOLS X (SRC#126)	, FLAMMAB	LE 2.1 UI	11-950	DM		P 38	<del>OUT6</del> 409H			
		d. RO WASTE PAINT X 3 UNI263 PG III (			21	Ma		P	MTS209H			
	15.	Special Handling Instructions and Addition	8-1760(24	HR) TF I	NDFLIVE	DARIF	75219 OC	O CEI	MEDATOD			
		EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR. SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 40343, 41038, 81681, 82739, 86256 SKDOT# 1: 2033 B: 163141 C: 20335 D: 163141										
	16	GENERATOR'S CERTIFICATION: I hereby de- classified, packed, marked, and labelled/placars government regulations, including applicable sta if I am a large quantity generator, I certify that economically practicable and that I have select future threat to human health and the environm the best waste management method that is available.	ded, and are in all resp ate regulations. I have a program in p ed the practicable me ent, OR, if I am a smi	pects in proper conditional properties to reduce the volument, stood of treatment, stood in quantity generator,	on for transport b lume and toxicity rage, or disposa	y highway a of waste ge currently a	ccording to applications and the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the development of the	ble interna gree I have h minimiz	ational and national e determined to be less the present and			
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SP	18. Transporter 2 Acknowledgement or Receipt of Materials						<del></del>		Alexander			
SPORTER	10.	Printed / Typed Name	pr or materials	Signature		//		M	Onth Day Year			
R	19.	Discrepancy Indication Space		X	16	Co.	1		1/20/00			
FACI									225			
L - T Y	20.	Facility Owner or Operator. Certification o	f receipt of hazarde	us materials covere	d by this manife	est except a	as noted in item	19				
۲		Printed / Typed Name	ter	Signature	Africa	Tr		 Mo	Date			
TCE		RQkd 000/00002223148 MPL# A)0003435148	B)000222 B)0003435	igal o Pink-TSD E	90003034 )0002355		r Green, General D) 000	29's firs	604y 351			

TEXAS COMMISSION ON ENVERNMENTAL QUALITY P.O. BOX 73087
Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No 2050-0039

A	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No CAL 0000 21:		Manifest Document No	2 Page 1 of 1			he shaded areas by Federal law.		
	3. Generator's Name and Mailing Address			<u> </u>		().				
	SANTA FE SPRINGS CA 90670 562 945-1383									
	5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	JS EPA ID NO					319-3840			
	7. Transporter 2 Company Name					and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t				
	9. Designated Facility Name and Site Address OOO616 10. US EPA ID Number 1722 COOPER CREEK ROAD DENTON. TX 76208									
	DENTON, TX 76		077603	371						
	11A. 11. US DOT Description (including Prop Number and Packing Group)	per Shipping Name, Hazard	Class, ID	12. Conta No.	Type T		14. Unit Vt/Vol	Water No.		
Gω	a. WASTE AEROSOLS	2-1 UN1950 (	ERG#12	6)	DM		Р	<b>ТИТЕТИТ</b>		
NER AT	b. RO WASTE PAINT X 3 UNI263 PG III (	RELATED MATER DO01) (ERG#128	RIAL B)	001	DM (30)	60	P	не вавка		
OR	C WASTE AEROSOLS X (ERC\$126)	, FLAMMABLE 2	2.1 UN1	950	DM		2	<b>М</b> едоян		
	d. RO WASTE PAINT X 3 UNI263 PG III (	D001) (ERG#128	3)	· · ·	MM		P	THE SAME		
	Age of Door Door Door Bear to Parent Comment Value (Black Bow)									
	15. Special Handling Instructions and Addition EMERGENCY RESP 800-46 SK CORP AUTH D TO USE	8-1760(24 HR).	TF UN	FST R/TA DELIVERA : 40343. 32 B: 16	RIE DET	אים מכווי	ነ ሮምነ	いずり ふでんり		
	16 GENERATOR'S CERTIFICATION: I hereby dec classified, packed, marked, and labelled/placard government regulations, including applicable stell I am a large quantity generator, I certify that economically practicable and that I have select future threat to human health and the environm the best waste management method that is available.	ted, and are in all respects in pro- ite regulations.  I have a program in place to re- ed the practicable method of tro- ent, OR, if I am a small quantity	oper condition duce the volur eatment, stora y generator, I h	for transport by higher me and toxicity of ge, or disposal cui	ghway accordir waste generate rently available	ng to applicab nd to the degr n to me which	le interna ee I have minimize	ational and national e determined to be es the present and		
V	Printed / Typed Name	Sign	nature.				M.	onth Day Year		
Ţ	17. Transporter 1 Acknowledgement of Receip	ot of Materials	·				- 1	Date		
TRANSPORTER	Printed / Typed Name		nature ,	1		Month Day Year				
RTER	18 Transporter 2 Acknowledgement or Receip Printed / Typed Name	· · · · · · · · · · · · · · · · · · ·	nature				<u> </u>   	Date onth Day Year		
FAC	19. Discrepancy Indication Space  DICE 01226									
<b>L</b>	20. Facility Owner or Operator: Certification of	receipt of hazardous mater	als covered	by this manifest	except as not	ed in item 1	9.			
7	Printed / Typed Name	Sign	nature			<del></del>	Mo	Date onth Day Year		
		- \ White_ engine - P	Pink TSD Fac	ility Vollow Tea		Canada				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087



PI	eas	e print or type. (Form designed		2-pitch) typewriter)					Form Approved	OMB No	2050-0039
A		UNIFORM HAZ WASTE MAN		1 Generator's US C'ALOC	E'AID No. D(021160		anifest iment No	2 Pa of			n the shaded areas ed by Federal law
	3	Generator's Name and M 8832		AIR LIQUI AD	HE 05C		77	A. St	ate Manifest Doc		9249
		SANT 5 Generator's Phone (	A FE SPR 62 945-1	INGS 383	CA 9067	0		B St	ate Generator's II		
	$\overline{}$	Transporter 1 Company N SAFETY - KLEEN	Name SYSTEMS		US EPA ID				ate Transporter's ansporter's Phone		7109 0 669-5840
Н	7.	Transporter 2 Company N	lame		US EPA ID			·	ate Transporter's		1038
П		TRIAC TRANG			KD9815		791		ansporter's Phone	W.	324-1235
	9.	Designated Facility Name SAFETY - KLEIN 1722 COOPER	CREEK RO	, INC. "	US EPA ID	Number		<u> </u>	ate Facility ID 5124		
$\ $	L	DENTON,	TX 7		TXD0776	03371	<del>,</del>	9	cility's Phone 40 483-5		
		A. 11. US DOT Description  Number and Paci	on (including Pro king Group)	per Shipping Nane	e, Hazard Class, ID		12 Conta No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No
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	15	Special Handling Instruct EMERGENCY RES SK CORP AUTH	SP 800-46	8-1760(24 SUBSEQUE	HR). IF UNT CARRIER	INDEL	IVERAI	BLE	<b>የጸ ጸነ</b> ፍጹነ	827	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	16	GENERATOR'S CERTIFICA classified, packed, marked, a government regulations, incli if I am a large quantity gene economically practicable and future threat to human health	and labelled/placare uding applicable sta erator, I certify that d that I have select	ded, and are in all resp ate regulations I have a program in p ed the practicable mi	pects in poper condit place to reduce the vo ethod of treatment, sti	on for tran	sport by high toxicity of volumes to the con-	jhway a vaste g rentiv a	enerated to the degralable to me who	ible inter gree I ha sh minim	rnational and national ave determined to be
		the best waste management	method that is avai	lable to me and that I	can afford	_	<b>3</b>				
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RTED		Printed / Typed Name		of Materials	Synature	T	<del>)</del>	 )/			Date Month Day Year
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LITY	20	Facility Owner or Operato	r Certification of	receipt of hazardo	us materials covere	d by this	manifest e	xcept a	as noted in item	19 「	Date
		Printed / Typed Name	VFDS	ter	Signature	1/2	str				Nonth Day Year
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	16b. NON-REGULATED SHIPPER'S CERTIFICATIO	N: I certify the materials described above on this for	n are not subject to led	eral regulations for In	nsportatio	n or Disposal Month Day	Year
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A	3 Shipper's Name and Mailing Address ATR 1 8832	DICE ROAD		· · · · · · · · · · · · · · · · · · ·			
		A FE SPRINGS	CA 9067	0			
	4 Shipper's Phone ( 562 945-1383 5 Transporter 1 Company Name	6. US EPA ID	Number	A. Transporter's	Phone	<del></del>	<u></u>
	SAFETY-KLEEN SYS, INC.	TXROOOS				5740	
	7 Transporter 2 Company Name	8 US EPA ID	Number	B Transporter's	Phone		
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	BILL OF LADING/MANIFEST	1. Shipper's US EPA ID No. (If Applicable)  CALQOQ021160	Document No	2. Page 1		
Ā	3. Shipper's Name and Mailing Address AIR	LIQUIDE OSC DICE ROAD	<del></del>			
			CA 90670	า		
	4 Shipper's Phone ( 562 945-1383			·		
	5. Transporter 1 Company Name SAFETY-KLEEN SYS, INC.	6 US EPA IC		A Transporter's F		
	7. Transporter 2 Company Name	8 US EPA 10		B Transporter's f	669-5740 Phone	
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	16b. NON-REGULATED SHIPPER'S CERTIFICATIO	ON: I certify the materials described above on this is	in are not subject to fed	leral regulations for Trai	nsportation or Disposal	
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	4 Shipper's Phone ( 562 9,45-1383 5 Transporter 1 Company Name	6	US EPA ID I	Number	A. Transporter	ro Phono	<del> </del>	
11	SAFETY-KLEEN SYS, INC.	-	TXR000050	-		669-	5740	
	7 Transporter 2 Company Name	8	US EPA ID I		B Transporter			
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## TEXAS COMMISSION ON TEMVIRONMENTAL QUALITY P.O. Box 13087



7-088-06

Austin, Texas 78711-3087 Form Approved OMB No. 2050-0039. Please print or type. (Form designed for use on elite (12-prtch) typewriter.) 1. Generator's US EPA ID No 2. Page 1 **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law. <u>WASTE MANIFEST</u> <del>CAL000021160</del> 3. Generator's Name and Mailing Address AIR LIQUIDE 05C 8832 DICE ROAD SANTA FE SPRINGS CA 90670 4. Generator's Phone ( 56 2 945-1383 US EPA ID Number 5. Transporter 1 Company Name 6. SAFETY-KLEEN SYSTEMS. TXR000050930 7. Transporter 2 Company Name 8 US EPA ID Number 9. Designated Facility Name and Site Address 0006 18 **US EPA ID Number** 10. SAFETY-KLEEN SYSTEMS, 1722 COOPER CREEK ROAD DENTON, TX 76208 TXD07760337 12. Containers หา้. US DOT Description (including Proper Shipping Name, Hazard Class, ID Total Unit HM Number and Packing Group) No. Quantity Wt∕va HAZARDOUS WASTE SOLID, MERCURY) 9, NA3077, PGIII N.O.S. (ARSENIC, X M ENERAT NON RCRA HAZARDOUS WASTE, SOLID Ŕ C. NON RORA HAZARDOUS WASTE, LIQUID d. NON RCRA HAZARDOUS WASTE, SOLID 15. Special Handling Instructions and Additional Information MFST R/T#106668256 0002-2155-24 UNDELIVERABLE RETURN TO GENERATOR ERS: 40343,41038,81681,82739,86256 EMERGENCY RESP 800-468-1760(24 HR). IF UND SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 7397 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Month Day Year Printed / Typed Name Signature 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed / Typed Name Signature Month Day Year 18 Transporter 2 Acknowledgement or Receipt of Materials Date Year Month Day Printed / Typed Name Signature 19. Discrepancy Indication Space **DICE 01245** 20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed / Typed Name Signature Day Year Month

### **TEXAS COMMISSION ON** ENVIRONMENTAL QUALITY P.O. Box 13087

Austin, Texas 78711-3087



Please print or type (Form designed for use on elite (12-pltch) typewriter)

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087
Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

A	UNIFORM HAZARDOUS	1. Gefandotte PA ib 66	Manifest/	2. Pag 1	Information in the shaded areas
A	WASTE MANIFEST	IA LIQUIDE OSC	TITE	Of	is not required by Federal law.
	3. Generator's Name and Mailing Address DICE KOAD SANTA FE SPRING	⊱ GS CA 90670			
	562 945-138 4. Generator's Phone (				
	5 KPEPPE KECENY SYSTEMS.	inc 6. Txr d66659999	er		
	7. Transporter 2 Company Name	8. US EPA ID Numb	er		
	9! Designated Facility Name and Site Address SAFETY-KLEEN SYSTEMS, 1722 COOPER CREEK ROAD DENTON, TX 7626	INC. 08	өг		
	11A. 11. US DOT Description (including Prop HM Number and Packing Group)	per Shipping Name, Hazard Class, ID	12. Cont	ainers 13	tal Unit
Ģ	a. RO WASTE PAINT I X 3 UNI 263 PG III (DO	RELATED MATERIÂL 001) (ERG#128)	-	H	
GEZERATO	X b. WASTE AEROSOLS	2.1 UN1950 (ERG#126)	00 f	M.	
OR	X (ERG#126.)	FLAMMABLE 2.1, UN1950		M	
	X 3 UNI 263 PG 111 ( DC			M	
	15. Special Handling Instructions and Addition EMERGENCY RESP 800-468-SK CORP AUTH'D TO USE S	nal Information MFST -1760(24 HR) IF UNDEL'SUBSEQUENT CARRIERS (4) SKDOT A: 163141	iverabi 0343,4:	06964342 LE RETUR 1038,816 332 C:	0002-2155-24' N TO GENERATOR. 81,82739,86256 20335 D: 163141
	government regulations, including applicable st if I am a large quantity generator, I certify that economically practicable and that I have select	ted, and are in all respects in profer condition for the regulations. There is no placed to reduce the volume of the practicable method of treatment, storage, ent; OR, if I am a small quantity generator, I have	transport by h and toxicity of or disposal cu	ighway according waste generated irrently available	to the degree I have determined to be to me which minimizes the present and
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R F A C	19. Discrepancy Indication Space		<del></del>	DICE 01	248
1	20 Facility Owner or Operator: Certification of	f receipt of hazardous materials covered by t	this manifest	except as note	
<u>`</u>	Printed / Typed Name	Signature	<del></del>	<del></del>	Date  Month Day Year

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087

Austin, Texas 78711-3087



7-08 8-08

Please print or type (Form designed for use on elite (12-pitch) typewriter)

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#### TEXAS COMMISSION ON **ENVIRONMENTAL QUALITY** P.O. Box 13087

Austin; Texas 78711-3087



7-088-06

Please print or type (Form designed for use on elite (12-pitch) typewriter)

7	I	LINIEODM HAZADDOUS	1. Generator's U	S EPA ID No	Manifest	2. Pa	76.1 Inform			205
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		722 COOPER CREEK ROA ENTON, TX 76					ality's Phone			
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#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087



7-088-06

Please print or type (Form designed for use on elite (12-pitch) typewriter)

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**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY** P.O. Box 13087 Austin, Texas 78711-3087

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No 2050-0039 1 Generator's US EPA ID No. Manifest 2. Page 1 **UNIFORM HAZARDOUS** Information in the shaded areas Document No is not required by Federal law. WASTE MANIFEST CAL000021160 LIQUIDE OŞC A State Manifest Document Number S 01039535 3. Generator's Name and Mailing Address AIR 8832 DICE ROAD ATTN: ARRON TESCH SANTA FE SPRINGS CA 30670 B. State Generators ID 562 945-1383 D0006 4 Generator's Phone ( US EPA ID Number Transporter 1 Company Name 6 C. State Transporters ID. SAFETY-KLEEN SYSTEMS, TXR000050930 D. Transporter's Phone 800 INC 7 Transporter 2 Company Name 8 US EPA ID Number E State Transporters ID F. Transporter's Phone 9. Designated Facility Name and Site Address 0006 18 SAFETY - KLEEN SYSTEMS, INC. G. State Facility ID US EPA ID Number 10 65124 1722 COOPER CREEK ROAD DENTON, TX 76208 H. Facility's Phone DENTON, TXD077603371 940 483-5200 12 Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Total НМ Number and Packing Group) Type Quantity Wt/Vol WASTE AEROSOLS 2.1 UN1950 (ERG#126) MC HTS 80 ER NER b RO WASTE PAINT RELATED MATERIAL 3 UN1263 PG III (DOO1) (ERG#128) DM OUTS 219H 00 911 i Dol ÓR WASTE AEROSOLS. FLAMMABLE 2.1 UN1950 (ERG#126) DM Hool Relie Х d RO WASTE PAINT RELATED MATERI 3 UN1263 PG III (DUO1) (ERG#128) DΜ )UTS 209N Additional Descriptions for Materials Listed Above IA D001 IB D001 D005 D006 D007 D008 D035 IC D001 ID P003 F005 D001 K. Handling Codes for Wastes Listed Above EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR. SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 81300, 40355, 41015. 40582, 84815

SKDOT# A: 20332 B: 163141 C: 20335 D: 183727 15. Special Handling Instructions and Additional Information 16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are contained by contents of the contents of this consignment are fully and accurately described above by the proper shipping name and are contents of this consignment are fully and accurately described above by the proper shipping name and are contents of this consignment are fully and accurately described above by the proper shipping name and are contents of this consignment are fully and accurately described above by the proper shipping name and are contents of this consignment are fully and accurately described above by the proper shipping name and are contents of this consignment are fully and accurately described above by the proper shipping name and are contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the con government regulations, including applicable state regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Month Day-Year Printed/ Typed Name Signature Date 17 Transporter 1 Acknowledgement of Receipt of Materials Day Year Printed / Typed Name/ Signature Month 18 Transporter 2 Acknowledgement or Receipt of Materials Date Printed / Typed Name Month Day Year Signature 19. Discrepancy Indication Space **DICE 01253** 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Date Printed / Typed Name Month Day Year Signature

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# Certificate of Treatment/Recycling

AIR LIQUID AMERICA

FOR

MANIFEST NUMBER 24355212

DATE RECEIVED \_\_\_5/19/2005

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

Cyrus Pourhassanian Laboratory Manager Date: 5/31/2005

2000 North Alameda Street 🖸 Compton 🗗 California 🗗 90222 Telephone (310) 537-7100 🗘 Facsimile (310) 639-2946

١	oved OMB No. 2050–0039 (Expires 9-30-99) If or type Form designed for use on elite (12-pitch) typewrifer 088 – (				2 Page 1		nent of Toxic Substances ( Sacramento, California on in the shaded areas	
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MFST R/T#105888211 0-000-00 EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR. SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.  16 GENERATOR'S CERTIFICATION: I hereby declare that the content of this configuration are fully and accorated described above by proper shipping name and art classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health								
	and the environment, OR, if I am a small quantity generator, I have marailable to me and that I can afford  Printed Typed Name	Signature		gonorulle	**************************************	Mo Mo		
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DO NOT WRITE BELOW THIS LINE.

State of California-I	invironmental Protection Agency
Form Approved OMB	No 2050-0039 (Expires 9-30-99)
Please print or type	Form designed for use on elite (12-pitch) typewriter 0.88 - 06

#### See Instructions on back of page 6.

Department of Toxic Substances Control Socramento, California

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Department of Toxic Substances Control Sacramento, California

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1	UNIFORM HAZARDOUS WASTE MANIFEST		ifest Document	87	2 Page 1	is not requi	in the shaded areas red by Federal law				
	3 Generator's Name and Mailing Address #118 LIG	A. State M	anifest Document	Number 2	4253489						
1	4 Generator's Phone (562) 244773816 FE	"A 9007	B State G	enerator's ID							
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ĺ	16 GENERATOR'S CERTIFICATION: I hereby declare that the constitution for transport by highway according to applicable international and national government regulations										
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7-088-06



Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No 2050-0039

<u> </u>		UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Informa	tion in the sha required by Fe	ded areas
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## **TEXAS COMMISSION ON** ENVIRONMENTAL QUALITY P.O. Box 13087

Austin, Texas 78711-3087



7-088-06

Please print or type (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039 2 Page 1 **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. Manifest Information in the shaded areas Document No is not required by Federal law. WASTE MANIFEST <del>CAL000021160</del> 3. Generator's Name and Mailing Address AIR LIQUIDE 05C A. State Manifest Document Number 8832 DICE ROAD B. State Generator's ID SANTA FE SPRINGS CA 90670 4. Generator's Phone ( 562 )945-1383 30006 5. Transporter 1 Company Name **US EPA ID Number** 6. C. State Trensporters ID C. Transcopers Prone SAFETY-KLEEN SYSTEMS. INC. TXP000050930 E State Titemporte out 7. Transporter 2 Company Name US EPA ID Number F. Transporters Phone 9. Designated Facility Name and Site Address000618 G. State Facility ID 10. US EPA ID Number SAFETY-KLEEN SYSTEMS, IN 1722 COOPER CREEK ROAD DENTON, TX 76208 H. Facility's Phone TXD07760337 12 Containers 11A. 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Total Unit HM Number and Packing Group) No Type Wt/V∩l Quantity CORROSIVE LIQUID, ACIDIC, INORGA N.O.S. (NITRIC ACID, SULFURIC ACID) 8 UN3264 PG III (ERG#154) INORGANIC, *ഉ*ം ⊋ þഷ G NER NON- ECCA Theorous White John soling 2.2 001 ÓR J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above IA) NONE MFST R/T#105766498 0002-2155-24
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR
SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 40343, 41038, 81681, 82739, 86256

SKDOT# A: 180813 B: 1/19 C: 15 Special Handling Instructions and Additional Information 16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small-quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

Month Day Year Printed / Typed Name Signature 17. Transporter 1 Acknowledgement of Receipt of Materials Date Month Day Year Printed / Typed Name Signature 18 Transporter 2 Acknowledgement or Receipt of Materials Date Day Printed / Typed Name Signature Month Year 19 Discrepancy Indication Space DICE 01265 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Signature

Day

Year

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Printed / Typed Name

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1-800-468-1760 (24 hours)

#### MATERIAL SAFETY DATA SHEET

Date Printed: 09/13/2007 Date Updated: 01/26/2006

Version 1.2

Product Name POTASSIUM HYDROXIDE SOLUTION 45%,

Product Number Brand

38161 FLUKA

Company

Sigma-Aldrich

Address

3050 Spruce Street SAINT LOUIS MO 63103 US

Technical Phone:

800-325-5832 800-325-5052

Fax: Emergency Phone:

314~776-6555

#### Section 2 - Composition/Information on Ingredient

Substance Name CAS # SARA 313

POTASSIUM HYDROXIDE SOLUTION,

None

No

25%=<C

SARA 313 Ingredient Name CAS # Percent

WATER POTASSIUM HYDROXIDE

<= 75 7732-18-5 1310-58-3 >= 25

No No

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Corrosive.

Harmful if swallowed. Causes severe burns.

#### HMIS RATING

HEALTH: 3

FLAMMABILITY: 0 REACTIVITY: 0

#### NFPA RATING

HEALTH: 3

FLAMMABILITY: 0 REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### Section 5 - Fire Fighting Measures

#### FLASH POINT

N/A

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

#### Section 6 - Accidental Release Measures

# PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

#### HANDLING

User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed.

## Section 8 - Exposure Controls / PPE

**DICE 01272** 

#### ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.
Other: Faceshield (8-inch minimum).

## GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Section	9	_	Physical	/Chemical	Properties
DCCCTOTI	_		TILADICAT	CIICILLCAL	1 1 00001 0100

Appearance	Physical	State:	Liquid			
Property	Value		At	Temperature	or	Pressure
Molecular Weight	N/A					
рН	N/A					
BP/BP Range	N/A					
MP/MP Range	N/A					
Freezing Point	N/A					
Vapor Pressure	N/A					
Vapor Density	N/A					
Saturated Vapor Conc.	N/A					
SG/Density	N/A					
Bulk Density	N/A					
Odor Threshold	N/A					
Volatile%	N/A					
VOC Content	N/A					
Water Content	N/A					
Solvent Content	N/A					
Evaporation Rate	N/A					
Viscosity	N/A					
Surface Tension	N/A					
Partition Coefficient	N/A					
Decomposition Temp.	N/A					
Flash Point	N/A					
Explosion Limits	N/A					
Flammability	N/A					
Autoignition Temp	N/A					
Refractive Index	N/A					
Optical Rotation	N/A					
Miscellaneous Data	N/A					
Solubility	N/A					
N/A = not available						

## Section 10 - Stability and Reactivity

#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - 7	Toxicological	Information	DICE 01273
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#### ROUTE OF EXPOSURE

Skin Contact: Causes severe burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### Section 14 - Transport Information

#### DOT

Proper Shipping Name: Potassium hydroxide, solution

UN#: 1814 Class: 8

Packing Group: Packing Group II

Hazard Label: Corrosive

PIH: Not PIH

#### IATA

Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION

IATA UN Number: 1814 Hazard Class: 8 Packing Group: II

## Section 15 - Regulatory Information

#### EU DIRECTIVES CLASSIFICATION

Symbol of Danger: C

Indication of Danger: Corrosive.

R: 22-35

Risk Statements: Harmful if swallowed. Causes severe burns.

S: 26-36/37/39-45

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Corrosive.
Risk Statements: Harmful if swallowed. Causes severe burns.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

UNITED STATES REGULATORY INFORMATION SARA LISTED: No

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No NDSL: No

Section 16 - Other Information

#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

## 1. PRODUCT AND COMPANY INFORMATION

**CHEMICAL NAME; CLASS:** 

ETHYLENE OXIDE

SYNONYMS: Amprolene; Anprolene; Anproline; Dihydrooxirene; Dimethylene Oxide;

ENT 26,263; E.O.; 1,2-Epoxyethane; Ethene Oxide; ETO; Merpol; Oxyane;

Oxacyclopropane; Oxidoethane; $\alpha,\beta$ -Oxidoethane; Oxirane; Oxyfume; T-Gas

**CHEMICAL FAMILY NAME:** Hydride

FORMULA: C<sub>2</sub>H<sub>4</sub>O

PRODUCT USE: Document Number: 20068
Chemical intermediate for m

Chemical intermediate for manufacture of ethylene glycol and higher glycols; sterilant for surgical instruments; and fumigant for foodstuffs and textiles; component of fungicide in agricultural applications; starting material for acrylonitrile and non-ionic surfactants.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

## 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Ethylene Oxide is a colorless, highly reactive, toxic, flammable gas at normal temperature pressure, and a colorless liquid below 10.4°C (50.7°F) Both the liquid and the gas have an ether-like odor. Exposure to even very small quantities can result in severe health effects; inhalation of higher concentrations may be fatal. Ethylene Oxide is a suspected human carcinogen and a reproductive toxin. Ethylene Oxide can form flammable mixtures in air and presents an extreme fire hazard when accidentally released. Ethylene Oxide is slightly heavier than air and may travel a considerable distance to a source of ignition and flash-back to a leak Ethylene oxide is highly reactive and can undergo hazardous polymerization if contaminated. Emergency responders must wear adequate personal protective equipment and provide suitable fire protection during response situations.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of over-exposure for Ethylene Oxide are by inhalation, ingestion and skin and eye contact.

**INHALATION:** Ethylene Oxide is considered moderately toxic by inhalation. Exposure to low concentrations of vapors of Ethylene Oxide can result in nausea, vomiting, and other effects on the central nervous system. These symptoms can be delayed for five or more hours after exposure. Inhalation of low to moderate concentrations of Ethylene Oxide will cause irritation of the nose, throat, mucous membranes and upper respiratory tract. Inhalation of high concentrations of Ethylene Oxide (as may occur if Ethylene Oxide is used or released in a poorly-ventilated area or confined space, or during a release of large volumes of this product), can cause potentially fatal pulmonary edema. Odor is not a reliable warning property for Ethylene Oxide; inhalation of low concentrations of this gas can cause olfactory fatigue rather rapidly.

CONTACT WITH SKIN or EYES: Contact of vapors or liquid with the skin can cause blistering to severe, delayed chemical burns. Skin ulcers may be delayed, often appearing one to five hours after contact. Allergic dermatitis may occur after prolonged or repeated skin exposures. Contact of vapors with the eyes can cause moderate to severe irritation, resulting in tearing, redness and burns. Direct contact of Liquid Ethylene Oxide with the eyes, will cause severe irritation and comeal injury, possibly leading to blindness. Repeated eye over-exposure may lead to cataracts.

**SKIN ABSORPTION:** Ethylene Oxide may be absorbed through intact skin, causing systemic poisoning as described under "Other Potential Health Effects".

**INGESTION:** Ingestion is not anticipated to be a significant route of industrial over-exposure for Ethylene Oxide. If ingested, Ethylene Oxide is toxic by ingestion, causing symptoms of systemic poisoning as described under "Other Potential Health Effects".

OTHER POTENTIAL HEALTH EFFECTS: Ethylene Oxide is a poison by ingestion, intraperitoneal, subcutaneous and intravenous routes. Human system effects by these routes and by inhalation can lead to convulsions, nausea, vomiting, olfactory and pulmonary changes, drowsiness, weakness and incoordination, EKG abnormalities, and cyanosis. Ethylene Oxide is a suspected human carcinogen (potentially causing leukemia, as well as stomach and pancreatic cancers) with experimental carcinogenic, tumorigenic, neoplastigenic and teratogenic data. Overexposure to Ethylene Oxide may also cause liver, kidney, and central nervous system damage. For further information, see Section 11, Toxicological Information.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms**. Over-exposure to Ethylene Oxide may cause the following health effects:

ACUTE: Ethylene Oxide is a severe irritant via inhalation, skin and eye contact and may cause delayed injury. Exposure to low concentrations by inhalation can cause nausea and vomiting, which can also be delayed after exposure. Acute over-exposure to high concentrations via inhalation can lead to potentially fatal pulmonary edema. Contact of the liquid with the eyes can cause comeal burns and possibly blindness. Acute exposure via all routes can lead to systemic poisoning, leading to symptoms of convulsions, nausea, vomiting, cyanosis and changes in olfactory senses, pulmonary system and to EKG abnormalities.

## 2. HAZARD IDENTIFICATION (Continued)

CHRONIC: Ethylene Oxide is a suspected human carcinogen. Experimental data are available as to the tumorigenic, carcinogenic, neoplastigenic and teratogenic properties of Ethylene Oxide. Refer to Section 11 (Toxicology Information) for additional data. Repeated exposure to low levels of the gas or liquid may lead to dermatitis, with symptoms of redness, dried and cracked skin

TARGET ORGANS: Respiratory system, skin, eyes, reproductive system, kidney, liver.

## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %				EXPOSURE	LIMITS II	NAIR
		1	ACGI	Н		OSHA		
		}	TLV	STEL	PEL	STEL	IDLH	OTHER
			ppm	ppm	ppm	ppm	ppm	
Ethylene Oxide	75-21-8	> 99.0%	1, A2, Suspected	NE	1	5 (15 minute	800	NIOSH REL: < 0.1 TWA, 5 C (10 minutes/day), Carcinogen
			Human Carcinogen			excursion)		OSHA Action Level. 0.5 ppm
		ĺ	Carcinogen					IARC-2A, MAK-A2,
								NTP-2A, OSHA-X
Maximum Impu	nties	<1 0%	with the prod	uct. All hety Data	azard in Sheet, p	formation pert er the require	inent to ti ements o	significantly to the hazards associated his product has been provided in this f the OSHA Hazard Communication ndards

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format.

## 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO ETHYLENE OXIDE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Chemically-Resistant and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Treatment for Ethylene Oxide poisoning must be prompt. All over-exposed individuals must receive medical evaluation, because the development of symptoms to potentially life-threatening conditions may be delayed. Keep victims warm and comfortable.

**INHALATION**: If vapors, mists, or sprays of any of Ethylene Oxide are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Remove or cover gross contamination to avoid exposure to rescuers.

**SKIN EXPOSURE:** If Ethylene Oxide contaminates the skin, <u>immediately</u> begin decontamination with running water. <u>Minimum</u> flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s). Specific notes to physicians are located in Section 11, Toxicological Information.

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: -20°C (-4°F)

**AUTOIGNITION TEMPERATURE: 429°C (804°F)** 

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL). 3.0% Upper (UEL). 100%

**FIRE EXTINGUISHING MATERIALS**: Extinguish Ethylene Oxide fires by shutting-off the source of the gas. Use a fine water spray or fog to reduce combustion products formed in air. Cool fire-exposed cylinders with water spray, from the maximum distance possible. Alcohol foam, carbon dioxide or dry chemical forms of fire extinguishing agents can be used against Ethylene Oxide fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Ethylene oxide presents a serious health hazard to firefighters; short-term over-exposures to this substance can cause serious injury or death. Ethylene Oxide is a Class IA flammable liquid. Ethylene Oxide will readily ignite at room temperature. Ethylene Oxide is slightly heavier than air and can travel considerable distances to a source of ignition and flash-back to the leak. Ethylene Oxide can react violently with water, and can undergo hazardous polymerization.

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Direct flame exposure on the cylinder wall can cause an explosion either by BLEVE (Boiling Liquid Expanding Vapor Explosion), or by exothermic decomposition. This is a catastrophic failure of the cylinder releasing the contents into a massive fireball and explosion. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: Sensitive. Static charge can build-up and may cause this product to ignite explosively if released.

SPECIAL FIRE-FIGHTING PROCEDURES: In the event of fire, cool containers of this product with water to prevent failure. Use a water spray or fog to reduce or direct vapors. Water is not effective in actually extinguishing a fire involving Ethylene Oxide, due to its low flash point and the potential for an explosive chemical reaction. Stop the leak or discharge, if possible. For small releases, if it is not possible to stop the leak, and it does not endanger personnel, let the fire burn itself out. Incipient fire responders should wear eye protection. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Appropriate chemically-protective clothing may be necessary. Keep away from low-lying areas. Stay upwind. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of vessel exposures, evacuate the area. Follow the guidelines of the North American Emergency Response Guidebook (Guide #119).

## 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: If a leak occurs of a sufficient quantity to cause a dangerous level of Ethylene Oxide, evacuate the immediate area of all personnel. Uncontrolled releases should be responded to by trained personnel using preplanned procedures. Proper protective equipment must be used. In case of a release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking-tools and equipment during the response.

Minimum Personal Protective Equipment should be Level A: fully encapsulating suit, triple-layer of gloves (neoprene over nitrile and N-Dex or latex), chemically-resistant boots, hard-hat, and Self-Contained Breathing Apparatus. Level A protection must be worn during emergency response situations in all areas in which the level of exposure to Ethylene Oxide is above 50% of the TLV (1 ppm). Fire retardant gear must be worn under Level A protection when Ethylene Oxide levels exceed 10% of the LEL (3.0%).

Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate, if it can be done to an area in which there are no personnel. Combustible gas concentration must be below 10% of the LEL (3.0%) prior to entry. Monitor the surrounding area for toxic Ethylene Oxide levels as well as combustible gas levels and oxygen level. The atmosphere must be below 50% of the TLV (1 ppm) of Ethylene Oxide and must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area.

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#### 7. HANDLING AND STORAGE

If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

NOTE: A colorimetric tubes and direct reading instruments are available for Ethylene Oxide.

THIS IS AN EXTREMELY TOXIC, REACTIVE, FLAMMABLE GAS. Protection of all personnel and the area must be maintained. WORK PRACTICES AND HYGIENE PRACTICES: All areas where Ethylene Oxide is used should be monitored with very sensitive gas detection instruments. Detection of concentrations below 50% of the TLV level of 1 ppm should trigger immediate response and corrective action. Detection of higher levels should initiate an alarm calling for evacuation of all personnel with the potential to be exposed. Due to the toxicity of Ethylene Oxide, all-contaminated clothing should be removed and placed in a sealed container for proper disposal.

**NOTE:** Refer to the OSHA Ethylene Oxide Standard (29 CFR 1910.1047) for specific requirements associated with the use of this gas. The Action Level for Ethylene Oxide is 0.5 ppm. In workplaces where employees are exposed above the Action Level, the OSHA requirements for monitoring, establishment of regulated areas, methods of compliance, respiratory protection, emergency response protocol, medical surveillance, training, and record-keeping must be followed.

**STORAGE AND HANDLING PRACTICES**: Entrances to regulated areas (as defined by the OSHA Ethylene Oxide Standard) must be posted with legible signs which reads as follows:

DANGER
ETHYLENE OXIDE
CANCER HAZARD AND REPRODUCTIVE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING MAY BE REQUIRED TO
BE WORN IN THIS AREA

Additionally, refer to Appendix A of the Ethylene Oxide Standard (29 CFR 1910.1047) to determine specific workplace practices (e.g., changing supply line filters, work in restricted access areas, door opening procedures, sterilizers without purge cycles, chamber unloading procedures, maintenance).

Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity). Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers). Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow.

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS**: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

## 7. HANDLING AND STORAGE (Continued)

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

**After Use:** Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

**NOTE**: Use only DOT or ASME code containers designed for flammable, reactive, and toxic gas storage. Earthground and bond all lines and equipment associated with this product. Close valve after each use and when empty.

THREADED: CGA 510

PIN-INDEXED YOKE: Not applicable.

ULTRA HIGH INTEGRITY. Not applicable.PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**: Install automatic monitoring equipment to detect the level of Ethylene Oxide. Provide explosion-proof ventilation adequate to ensure Ethylene Oxide does not reach its lower flammability limit of 3.0%. Process enclosure and local exhaust ventilation is recommended for operations involving Ethylene Oxide. Refer to Appendix A of the OSHA Ethylene Oxide Standard (29 CFR 1910 1047) for specific information on workplace design and engineering controls (e.g. gas line hand valves, "capture boxes", and ventilation systems for aeration units, sterilizer relief valves, and in areas in which cylinder are changed).

RESPIRATORY PROTECTION: Maintain Ethylene Oxide levels below 50% of the TLV (1 ppm) and oxygen levels above 19.5% in the workplace. The use of supplied air respiratory protection is recommended when changing Ethylene Oxide cylinders or working on Ethylene Oxide systems. Use supplied air respiratory protection when Ethylene Oxide levels exceed 50% of the TLV (1 ppm), oxygen levels are below 19.5%, or during emergency response to a release of this product. During an emergency situation, before entering the area, check the concentration of Ethylene Oxide and oxygen. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards. The following NIOSH guidelines for respirator selection are provided for additional information:

#### CONCENTRATION RESPIRATORY EQUIPMENT

Up to 5 ppm Gas mask with canister, full-facepiece SCBA or full-facepiece Supplied Air Respirator

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive-pressure, full facepiece SCBA or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Escape Gas mask with canister to protect against Ethylene Oxide or escape-type SCBA should be used.

The IDLH concentration for Ethylene Oxide is 800 ppm; however, the carcinogenic properties of Ethylene Oxide were not taken into consideration in determining the IDLH.

**NOTE:** Follow the specific respiratory selection guidelines of the OSHA Ethylene Oxide Standard in regulated areas (as defined by 29 CFR 1910.1047).

EYE PROTECTION Safety glasses or goggles, with faceshield.

HAND PROTECTION: Wear leather gloves for handling of cylinders of this product; however, if contaminated, should be discarded as Ethylene Oxide will be retained in the leather and can cause burns or allergic skin rashes. Wear chemically impervious gloves appropriate for Ethylene Oxide for industrial use. Gloves should have a resistance to breakthrough greater than 8 hours, such as polyvinyl alcohol, Barricade™, Chemrel™, or Responder™. Natural rubber, neoprene, nitrile rubber, or polyethylene, polyvinyl chloride, Viton™, Saranexl™ are not recommended. Use triple gloves for spill response (see Section 6, Accidental Release Measures).

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## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

**BODY PROTECTION**: Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. For emergency response operations, clothing resistant to the toxic effects of Ethylene Oxide is required (i.e., Level A Protection).

## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 20°C (68°F) and 21.1 psia (146.0 kPa abs): 0.1751 lb/ft<sup>3</sup> (2.804 kg/m<sup>3</sup>) LIQUID DENSITY @ 20°C (68°F) and 21.1 psia (146.0 kPa abs): 54.30 lb/ft<sup>3</sup> (869.8 kg/m<sup>3</sup>)

BOILING POINT @ 14.7 psia (101.3 kPa abs): 10 4°C (50.7°F)

FREEZING/MELTING POINT @ 14.7 psia (101.3 kPa abs): -112.6°C (-170.7°F)

SPECIFIC GRAVITY (air = 1): 1.52

pH: Not applicable.

**SOLUBILITY IN WATER:** Miscible.

MOLECULAR WEIGHT: 44.05

EVAPORATION RATE (nBuAc = 1): Not available.

EXPANSION RATIO: Not applicable.

**VAPOR PRESSURE @ 20°C (68°F):** 21.1 psia (146.0 kPa)

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 5.0

ODOR THRESHOLD: 420 ppm (detection); 490 ppm (recognition) COEFFICIENT WATER/OIL DISTRIBUTION: Log P (oct) = -0.30.

**APPEARANCE AND COLOR:** Colorless gas with an ether-like odor at normal pressure and temperature; colorless liquid, with an ether-like odor below 10.4°C (50.7°F)

**HOW TO DETECT THIS SUBSTANCE (warning properties):** The odor of Ethylene Oxide is not a good warning property as it will rapidly cause olfactory fatigue. Monitoring systems must be used for detection of this gas.

## 10. STABILITY and REACTIVITY

STABILITY: Ethylene Oxide is highly reactive. Ethylene Oxide may undergo a runaway reaction with water.

**DECOMPOSITION PRODUCTS**: When involved in a fire, this material may decompose and produce toxic gases (i.e., carbon monoxide, carbon dioxide), irritating fumes and acrid smoke.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Ethylene Oxide can polymerize violently when in contact with highly catalytic surfaces such as anhydrous iron, tin, aluminum chloride, and ammonia, pure iron, aluminum oxides, and alkali metal hydroxides. Ethylene Oxide is incompatible with bases, alcohols, air, mnitroaniline, trimethyl amine, copper, iron chlorides, iron oxides, magnesium perchlorate, mercaptans, potassium, alkane thiols and bromomethane. Ethylene Oxide reacts explosively with glycerol above 200°F (93.3°C). Rapid compression of the vapor of Ethylene Oxide with air can cause an explosion.

**HAZARDOUS POLYMERIZATION**: Hazardous polymerization may occur if contaminated or in contact with incompatible materials, as listed above.

**CONDITIONS TO AVOID:** Contact with incompatible materials and exposure to moisture and to heat, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following data are available for Ethylene Oxide:

Unscheduled DNA Synthesis-Human. leukocyte 4 mmol/L.

Sister Chromatid Exchange-Human lymphocyte 4 pph Teratogenesis, Carcinogenesis, and Mutagenesis

Skin-Human 1%/7 seconds

Eye effects-Rabbit, adult 18 mg/6 hours Moderate imitation effects

Mutation in Microorganisms-other microorganisms 540 mg/L Sister Chromatid Exchange-Human lymphocyte 10 mg/L

DNA Damage-Mouse-Intrapentoneal 100 mg/kg

Dominant Lethal Test-Mouse-Inhalation 500 ppm/6 hours/4 dayscontinuous

Intrapentoneal-Mouse TDLo 750 mg/kg (male 25D pre):Reproductive effects

Inhalation-Mouse TCLo 1200 ppm/90 minutes (female 1 day post):Teratogenic effects

Oral-Rat TDLo 1186 mg/kg/2 years- intermittent Carcinogenic effects

Inhalation-Rat TCLo 33 ppm/6 hours/2 years- intermitten

Carcinogenic effects
Inhalation-Mouse TDLo 50 ppm/6 hours/2 years Carcinogenic

effects, tumors
Subcutaneous-Mouse TDLo. 292 mg/kg/95 weeks- intermittent
Carcinogenic effects

Subcutaneous-Mouse TD 1090 mg/kg/91 weeks - intermittent Neoplastic effects Subcutaneous-Mouse TD. 908 mg/kg/95 weeks - Intermittent. Carcinogenic effects

Subcutaneous-Mouse TD. 2576 mg/kg/95 weeks - intermittent Carcinogenic effects

Oral-Rat TD: 5112 mg/kg/2 years - intermittent. Carcinogenic effects Inhalation-Rat TC: 50 ppm/7 hours/2 years - intermittent. Carcinogenic effects

Inhalation-Rat TC 33 ppm/6 hours/2 years - intermittent: Equivocal tumorigenic agent

Inhalation-Rat TC 33 ppm/6 hours/2 years - intermittent Carcinogenic effects

Inhalation-Human TCLo: 12,500 ppm/10 seconds nose

Inhalation-Woman TCLo 500 ppm/2 minutes Central nervous Gastrointestinal tract , Pulmonary system effects

Oral-Rat LD<sup>50</sup>. 72 mg/kg

Inhalation-Rat LC<sub>50</sub> 800 ppm/4 hours

Subcutaneous-Rat LD<sub>50</sub>: 187 mg/kg

Inhalation-Mouse LC<sub>50</sub> 836 ppm/4 hours

Intrapentoneal-Mouse LD<sub>50</sub> 175 mg/kg Intravenous-Mouse LD<sub>50</sub> 290 mg/kg

Inhalation-Dog, adult LC<sub>50</sub>: 960 ppm/4 hours

Subcutaneous-Cat, adult LDLo: 100 mg/kg

Intravenous-Rabbit, adult LDLo 175 mg/kg

Inhalation-Guinea Pig, adult LC<sub>50</sub>: 1500 mg/m3/4 hours

SUSPECTED CANCER AGENT: Ethylene Oxide is listed as follows: IARC-2A (Probably Carcinogenic to Humans; Limited Human Evidence/Sufficient Evidence in Experimental Animals), MAK-A2 (Unmistakable Carcinogenic in Animal Experimentation Only), NTP-2A (Reasonably Anticipated to be a Carcinogen; Limited Evidence of Carcinogenicity from Studies with Humans); OSHA-X (Carcinogen); NIOSH-X (Carcinogen); ACGIH-A2 (Suspected Human Carcinogen)

**IRRITANCY OF PRODUCT:** Ethylene Oxide is moderately to severely imtating to contaminated skin and severely irritating to the eyes.

**SENSITIZATION TO THE PRODUCT**: Ethylene Oxide is a sensitizer after prolonged or repeated over-exposures. **REPRODUCTIVE TOXICITY INFORMATION**: Listed below is information concerning the effects of this product on the human reproductive system.

<u>Mutagenicity</u>: Studies indicate that Ethylene Oxide workers are more likely to have chromosomal damage that similar workers not exposed to this substance. Human mutation data are also available for Ethylene Oxide; these data were obtained during clinical studies on specific human tissues exposed to this substance.

<u>Embryotoxcity</u>: Ethylene Oxide may cause embryotoxic effects. There is an increased incidence of spontaneous abortions among workers in Ethylene Oxide production.

<u>Teratogenicity</u>: Ethylene Oxide may be teratogenic and damage the developing fetus. Animal teratogenicity data are available from clinical studies.

Reproductive Toxicity. There is an increased incidence of gynecological disorders among workers in ethylene oxide production. One study indicated a reduced sperm count in exposed workers. Data on adverse reproductive effects are also available from animal studies.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to this product. Additionally, blood, kidney, liver and cardiovascular conditions may also be aggravated (depending on the severity and duration of the over-exposure).

**RECOMMENDATIONS TO PHYSICIANS**: If victim experiences nausea and vomiting, sufficient quantities of warm water should be administered in order to wash out stomach. Unpublished reports indicate that, for persistent nausea and vomiting caused by inhalation of Ethylene Oxide vapors, an intramuscular injection of sodium phenobarbital (of 2 grains), is very helpful in controlling such symptoms.

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## 11. TOXICOLOGICAL INFORMATION (Continued)

In event of severe exposure and if victim is still breathing, victim should be administered 100% oxygen under positive exhalation pressure for one-half hour periods every hour for at least three hours. If no sign of lung congestion appears after this period and if breathing is easy and skin and mucous membranes show good color, oxygen therapy can be discontinued. If breathing has stopped, artificial respiration should be started preferably while administering oxygen, preferably.

For skin burns resulting in blister formation, evacuate blisters and apply solid petroleum dressings. Skin burns from exposure to aqueous solutions of Ethylene Oxide should receive copious irrigation of normal saline followed by application of a topical antimicrobial agent, such as silver sulfadiazine cream and a dressing. Signs of burns may not appear after exposure for up to 5 hours.

Refer to the OSHA Ethylene Oxide Standard (29 CFR 1910.1047, paragraph I) for specific information on Medical Surveillance requirements (i.e. for the general physical exam, medical history, specific tests, and re-examination protocol). Physical examinations must be given with emphasis on the skin and eyes, as well as the pulmonary, hematologic, neurologic, and reproductive systems.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Ethylene Oxide.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas. Based on limited data, Ethylene Oxide is expected to biodegrade at a reasonable rate after acclimation.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Ethylene Oxide is an extremely toxic gas which can be harmful or fatal to over-exposed plant or animal life. Refer to Section 11 (Toxicology Information) for data on Ethylene Oxide's effects on test animals during clinical studies. No specific studies on the bio-concentration of Ethylene Oxide have been completed; however, due to the low octanol/water partition coefficient of Kow = -0.3, Ethylene Oxide is not expected to bio-concentrate significantly.

EFFECT OF CHEMICAL ON AQUATIC LIFE: Ethylene Oxide is an extremely toxic gas which is soluble in water: therefore, this gas can be harmful or fatal to aquatic life in contaminated bodies of water. The following aquatic toxicity data are available for Ethylene Oxide:

LC<sub>50</sub> Goldfish 90 mg/L/24 hours, modified ASTM D 1345

#### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

## 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Ethylene Oxide

HAZARD CLASS NUMBER and DESCRIPTION: 23 (Poison Gas)

**UN IDENTIFICATION NUMBER:** 

**UN 1040** 

**PACKING GROUP:** 

Not applicable.

DOT LABEL(S) REQUIRED:

Poison Gas, Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 119

MARINE POLLUTANT: Ethylene Oxide is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL PROVISION: This material must be described "Poison-Inhalation Hazard Zone D" on shipping papers and containers must be marked per the requirements of 49 CFR 172.313.

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilation vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

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## 14. TRANSPORTATION INFORMATION (Continued)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

#### 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS**: Ethylene Oxide is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

COMPONENT	SARA 302	SARA 304	SARA 313
Ethylene Oxide	YES	YES	YES

This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370.21).

SARA THRESHOLD PLANNING QUANTITY: 1000 pounds.

TSCA INVENTORY STATUS: Ethylene Oxide is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY (RQ): 10 pounds

#### OTHER U.S. FEDERAL REGULATIONS:

- Ethylene Oxide, is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.
- Ethylene Oxide does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Ethylene Oxide is subject to requirements of CFR 29 1910.1000. Ethylene Oxide is listed in Table Z.1.
- Ethylene Oxide is regulated under the Ethylene Oxide Standard (29 CFR 1910.1047).
- Ethylene Oxide (also as Oxirane) is listed in 40 CFR, Part 68 (Risk Management for Chemical Release Prevention), Table 1, as an extremely hazardous and flammable substance. The threshold quantity for Ethylene Oxide under this regulation is 10,000 lbs.
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Ethylene Oxide is listed in Appendix A. The threshold quantity for Ethylene Oxide, under this regulation is 5000 lbs.

**OTHER CANADIAN REGULATIONS:** Ethylene Oxide is categorized as a Controlled Product, Hazard Classes A, B1, D1A, D2A, and F, s per the Controlled Product Regulations.

STATE REGULATORY INFORMATION: Ethylene Oxide is covered under specific State regulations, as denoted below.

Alaska - Designated Toxic and Hazardous Substances: Ethylene Oxide.

California - Permissible Exposure Limits for Chemical Contaminants: Ethylene Oxide.

Florida - Substance List: Ethylene Oxide Illinois - Toxic Substance List: Ethylene Oxide

Kansas - Section 302/313 List: Ethylene Oxide.

Michigan - Critical Materials List: Ethylene Oxide.

Massachusetts - Substance List: Ethylene Oxide.

Minnesota - List of Hazardous Substances: Ethylene Oxide.

Missouri - Employer Information/Toxic Substance List: Ethylene Oxide

New Jersey - Right to Know Hazardous Substance List: Ethylene Oxide. North Dakota - List of Hazardous Chemicals, Reportable Quantities: Ethylene Oxide.

Pennsylvania - Hazardous Substance List: Ethylene Oxide.

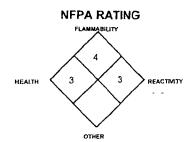
Rhode Island - Hazardous Substance List: Ethylene Oxide.

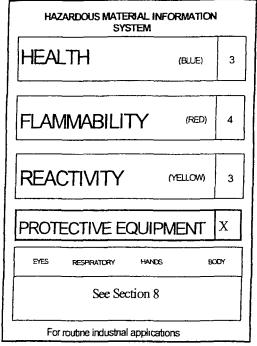
Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List:

Wisconsin - Toxic and Hazardous Substances: No

**CALIFORNIA PROPOSITION 65**: Ethylene Oxide is on the California Proposition 65 lists. WARNING: Ethylene Oxide is a substance known to the State of California to cause cancer, birth defects, and other reproductive harm.

## 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923. Telephone: (703) 788-2700.

P-1

"Safe Handling of Compressed Gases in Containers"

AV-1

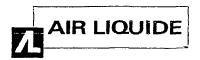
"Safe Handling and Storage of Compressed Gases"

"Sare Handling and Storage of Compressed Gases" "Handbook of Compressed Gases"

PREPARED BY:

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This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**DICE 01286** 

ETHYLENE OXIDE - C2H4O - MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

## SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 3.0 Revision Date 03/22/2007 Print Date 09/13/2007

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Acetone

**Product Number** 

179124

Brand

Sigma-Aldrich

Company

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Fax

+1 800-325-5052

Emergency Phone #

(314) 776-6555

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C3H6O

CAS-No	EC-No	_Index-No	Concentration [%]
Acetone			
67-64-1	200-662-2	606-001-00-8	-

#### 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

## **OSHA Hazards**

Flammable Liquid

Delayed target organ effects

Moderate skin irritant

Moderate eye ırrıtant

#### **Target Organs**

Liver, Kidney

## **HMIS Classification**

Health Hazard. 2

Chronic Health Hazard \*\*

Flammability 3

Physical hazards: 0

## **NFPA Rating**

Health Hazard 2

Fire 3

Reactivity Hazard. 0

**DICE 01287** 

#### **Potential Health Effects**

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

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cause drowsiness and dizziness.

Skin

May be harmful if absorbed through skin. Causes skin irritation. Repeated

exposure may cause skin dryness or cracking.

Eyes

Causes eve irritation.

Ingestion

May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point

-17 0 °C (1.4 °F) - closed cup

Ignition temperature

465 °C (869 °F)

#### Suitable extinguishing media

Carbon dioxide (CO2) For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components v	CAS-No.	Value	Control	Update	Basis	
Componente	0,10,110.	Juliuc	parameters			
Acetone	67-64-1	TWA	500 ppm 1,188 mg/m3	1997-05-21	US American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)	
		STEL	750 ppm 1,782 mg/m3	1997-05-21	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs)	
		TWA	750 ppm 1,800 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A	
Remarks	The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.					
		STEL	1,000 ppm 2,400 mg/m3	1989-03-01	US Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A	
	The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.					
		TWA	1,000 ppm 2,400 mg/m3	1993-06-30	US. Department of Labor - Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) 29 CFR 1910.1000 Air Contaminants.	

#### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

## Eye protection

Safety glasses

#### Skin and body protection

impervious clothing, Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Appearance**

Form

liquid, clear

Colour

colourless

#### Safety data

pН

no data available

Melting point

-94.0 °C (-137.2 °F)

Boiling point

56.0 °C (132.8 °F)

Flash point

-17.0 °C (1.4 °F) - closed cup

Ignition temperature

465 °C (869 °F)

Lower explosion limit

2 %(V)

Upper explosion limit

13 %(V)

Vapour pressure

533.3 hPa (400.0 mmHg) at 39.5 °C (103.1 °F)

245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F)

Density

0.79 g/cm3

Water solubility

completely miscible

Partition coefficient

log Pow: -0.24

(n-octanol/water)

10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Conditions to avoid

Heat, flames and sparks.

**DICE 01290** 

#### Materials to avoid

Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

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#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides

#### Hazardous reactions

Vapours may form explosive mixture with air

#### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

LD50 Oral - rat - 5,800 mg/kg

Remarks. Behavioral.Altered sleep time (including change in righting reflex) Behavioral:Tremor.

LC50 Inhalation - rat - 8 h - 50,100 mg/m3

LD50 Dermal - quinea pig - 7,426 mg/kg

#### Irritation and corrosion

Skin - rabbit - Mild skin irritation - 24 h

Eyes - rabbit - Eye irritation - 24 h

#### Sensitization

Remarks: Chronic exposure may cause dermatitis

#### Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

#### 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

Biodegradability

Remarks: no data available

**Ecotoxicity effects** 

Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540.00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 13,500.00 mg/l - 48 h

Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

**DICE 01291** 

DOT (US)

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UN-No: 1090

Class: 3

Packing group: II

Proper shipping name: Acetone

Proper shipping name. ACETONE

**IMDG** 

UN-No.: 1090

Class: 3

Packing group: II

EMS-No. F-E, S-D

67-64-1

Marine pollutant: No

**JATA** 

UN-No.: 1090

Class. 3

Packing group: II

Proper shipping name: Acetone

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Flammable Liquid, Delayed target organ effects, Moderate skin irritant, Moderate eye irritant

#### **TSCA Status**

On TSCA Inventory

#### **DSL Status**

All components of this product are on the Canadian DSL list.

## **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## Massachusetts Right To Know Components

	CAS-No.	Revision Date
Acetone	67-64-1	1989-12-01
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Acetone	67-64-1	1989-12-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date

#### Acetone

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## 16. OTHER INFORMATION

#### **Further information**

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**DICE 01292** 

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#### MATERIAL SAFETY DATA SHEET

Date Printed: 09/13/2007 Date Updated: 02/02/2006

Version 1.4

#### Section 1 - Product and Company Information

Product Name

METHANETHIOL, 99.5+%

Product Number

295515

Brand

ALDRICH

Company Address Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103 US

Technical Phone:

800-325-5832 800-325-5052

Fax: Emergency Phone:

314-776-6555

## Section 2 - Composition/Information on Ingredient

Substance Name METHANETHIOL

CAS # 74-93-1

SARA 313 Yes

Formula

CH4S

Synonyms

Mercaptan methylique (French) \* Mercaptomethane \*

Methaanthiol (Dutch) \* Methanethiol (OSHA) \*
Methanthiol (German) \* Methvtiolo (Italian) \*
Methylmercaptaan (Dutch) \* Methyl mercaptan
(ACGIH:OSHA) \* Metilmercaptano (Italian) \* RCRA
waste number U153 \* Thiomethanol \* Thiomethyl

alcohol

RTECS Number:

PB4375000

## Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Flammable (USA) Extremely Flammable (EU). Highly Toxic (USA) Toxic (EU). Dangerous for the environment.

Very toxic by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Highly toxic if inhaled. Target organ(s): Nerves. Blood.

#### HMIS RATING

HEALTH: 4\*

FLAMMABILITY: 4
REACTIVITY: 0

#### NFPA RATING

HEALTH: 4

FLAMMABILITY: 4 REACTIVITY: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

## Section 5 - Fire Fighting Measures

#### FLAMMABLE HAZARDS

Flammable Hazards: Yes

#### EXPLOSION HAZARDS

Container explosion may occur under fire conditions. May form explosive mixtures with air

#### FLASH POINT

- 0.4 °F - 18.0 °C Method: closed cup

#### EXPLOSION LIMITS

Lower: 3.9 % Upper: 21.8 %

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Extremely flammable. Emits toxic fumes under fire conditions.

#### Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

## PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

#### HANDLING

User Exposure: Do not breathe gas. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Store in a cool dry place. Cylinder temperature should not exceed 125°F (52°C).

#### SPECIAL REQUIREMENTS

Stench. Contents under pressure.

## Section 8 - Exposure Controls / PPE

#### ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath. Warning: suck-back into cylinder may cause rupture. Use back-flow-preventive device in piping.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

#### EXPOSURE LIMITS, RTECS

Country Source Type Value USA ACGIH TWA 0.5 PPM

USA MSHA Standard-air TWA 0.5 PPM (1 MG/M3)
USA OSHA. PEL CL 10 PPM (20 MG/M3)

New Zealand OEL

Remarks: check ACGIH TLV

USA NIOSH Ceiling co0.5 PPM/15M

#### EXPOSURE LIMITS

Country Source Type Value
Poland NDS 1 MG/M3
Poland NDSCh 2 MG/M3
Poland NDSP -

#### Section 9 - Physical/Chemical Properties

Appearance Color: Colorless DICE 01295

Form: Clear liquid

Property Value At Temperature or Pressure

```
Molecular Weight
                        48.11 AMU
                        N/A
                                             760 mmHq
BP/BP Range
                       6 °C
MP/MP Range
                        - 123.0 °C
Freezing Point
                       N/A
Vapor Pressure
Vapor Density
                       1536 mmHg
                                             20 °C
                       1.66 \, \text{g/l}
Saturated Vapor Conc. N/A
SG/Density
                        N/A
Bulk Density
                        N/A
Odor Threshold
                        N/A
Volatile%
                        N/A
                                         . . . . . . . . . .
VOC Content
                        N/A
Water Content
                        N/A
Solvent Content
                        N/A
Evaporation Rate
                        N/A
Viscosity
                        N/A
Surface Tension
                        N/A
Partition Coefficient N/A
Decomposition Temp.
                        N/A
                        - 0.4 °F - 18.0 °C Method: closed cup
Flash Point
Explosion Limits
                        Lower: 3.9 %
                        Upper: 21.8 %
Flammability
                        N/A
Autoignition Temp
                        N/A
Refractive Index
                        N/A
Optical Rotation
                        N/A
Miscellaneous Data
                        N/A
Solubility
                        N/A
```

#### N/A = not available

## Section 10 - Stability and Reactivity

#### STABILITY

Conditions to Avoid: Moisture.

Materials to Avoid: Strong bases Avoid contact with metals., Strong oxidizing agents, Strong reducing agents, Halogenated solvents, Organic materials, Zinc Copper, Copper alloys

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur oxides, Hydrogen sulfide gas.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Toxic if inhaled. Material is irritating to mucous

membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Nerves. Blood. Liver.

SIGNS AND SYMPTOMS OF EXPOSURE

Nausea, headache, and vomiting. Dizziness. Weakness. Incoordination. Tremors. Unconsciousness. Anemia. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Exposure can cause: Cyanosis.

#### TOXICITY DATA

Inhalation Rat 675 ppm

LC50

Remarks: Kidney, Ureter, Bladder: Urine volume increased. Gastrointestinal: Hypermotility, diarrhea. Lungs, Thorax, or

Respiration:Other changes.

Inhalation Mouse 6.53 mg/m3 LC50

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

APPROPRIATE METHOD OF DISPOSAL OF CONTAMINATED PACKAGING Caution: no-return cylinder. Do not reuse. Empty cylinder will contain hazardous residue. Follow proper disposal techniques.

#### Section 14 - Transport Information

#### DOT

Proper Shipping Name: Methyl mercaptan

UN#: 1064 Class: 2.3

Packing Group: None Hazard Label: Poison gas Hazard Label: Flammable gas

PIH: Zone C

#### IATA

Proper Shipping Name: Methyl mercaptan

IATA UN Number: 1064 Hazard Class: 2.3

Not Allowed - Aircraft: Cargo aircraft only. Not

7

permitted on passenger aircraft.

## Section 15 - Regulatory Information

**DICE 01297** 

#### EU DIRECTIVES CLASSIFICATION

Symbol of Danger: F+-T-N

Indication of Danger: Extremely Flammable. Toxic. Dangerous for the environment.

R: 12-23-50/53

Risk Statements: Extremely flammable. Toxic by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

S: 16-25-60-61

Safety Statements: Keep away from sources of ignition - no smoking. Avoid contact with eyes. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Extremely Flammable (EU). Highly Toxic (USA) Toxic (EU). Dangerous for the environment. Risk Statements: Very toxic by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid contact with eyes. This material and its container must be disposed of as hazardous waste. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. US Statements: Highly toxic if inhaled. Target organ(s): Nerves. Blood.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes DEMINIMIS: 1 %

NOTES: This product is subject to SARA section 313 reporting

requirements.

TSCA INVENTORY ITEM: Yes

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

#### Section 16 - Other Information

#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

## SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 3.1 Revision Date 05/17/2007 Print Date 09/13/2007

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Hexane

**Product Number** 

139386

Brand

Aldrich

Company

Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA.

Telephone

+1 800-325-5832

Fax

+1 800-325-5052

Emergency Phone #

(314) 776-6555

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

n-Hexane

Formula

C6H14

Molecular Weight

86.18 g/mol

CAS-No.	EC-No.	Index-No.	Concentration [%]
n-Hexane			
110-54-3	203-777-6	601-037-00-0	

### 3. HAZARDS IDENTIFICATION

## Emergency Overview OSHA Hazards

Flammable Liquid

Delayed target organ effects

Mild eye irritant

Reproductive hazard

### **Target Organs**

Peripheral nervous system., Kidney, Testes.

### **HMIS Classification**

Health Hazard: 2

Chronic Health Hazard \*

Flammability: 3

Physical hazards: 0

### **NFPA Rating**

Health Hazard: 2

Fire: 3

Reactivity Hazard 0

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### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness.

Skin May be harmful if absorbed through skin. May cause skin irritation:

Eyes May cause eye irritation.

Ingestion Aspiration hazard if swallowed - can enter lungs and cause damage. May be

harmful if swallowed

#### 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### in case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### if swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point -26.0 °C (-14.8 °F) - closed cup

Ignition temperature 234 °C (453 °F)

#### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

Handling

**DICE 01300** 

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage Store in cool place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

	with workplace			<del></del>					
Components	CAS-No.	Value	Control parameters	Update	Basis				
n-Hexane	110-54-3	TWA	50 ppm	1998-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)				
Remarks		1998 Adoption Substances for which there is a Biological Exposure Index or Indices.							
		TWA	50 ppm 180 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A				
		TWA	500 ppm 1,800 mg/m3	1993-06-30	US. Department of Labor - Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) 29 CFR 1910.1000 Air Contaminants.				

### Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

### Hand protection

Handle with gloves.

### Eye protection

Safety glasses

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**DICE 01301** 

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Appearance**

Form

liquid

Colour

colourless

### Safety data

pН

7.0

Melting point

-95.0 °C (-139.0 °F)

Boiling point

68.0 - 70.0 °C (154.4 - 158.0 °F)

Flash point

-26.0 °C (-14 8 °F) - closed cup

Ignition temperature

234 °C (453 °F)

Lower explosion limit

1.2 %(V)

Upper explosion limit

7.7 %(V)

Vapour pressure

341.3 hPa (256.0 mmHg) at 37.7 °C (99.9 °F)

176.0 hPa (132.0 mmHg) at 20.0 °C (68.0 °F)

Density

0.66 g/cm3

Water solubility

insoluble

Partition coefficient

10. STABILITY AND REACTIVITY

(n-octanol/water)

log Pow: 3.90 - 4.11

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks

#### Materials to avoid

Oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides

### Hazardous reactions

Vapours may form explosive mixture with air.

### 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

LD50 Oral - rat - 25,000 mg/kg

LC50 Inhalation - rat - 4 h - 48000 ppm

### Irritation and corrosion

Eyes - rabbit - Mild eye irritation

### Sensitization

no data available

### Chronic exposure

**DICE 01302** 

Carcinogenicity - rat - Inhalation

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Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic Effects: Testicular tumors.

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

#### Signs and Symptoms of Exposure

Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slowed reaction time, slurred speech,-Headache, Dizziness, Drowsiness, Unconsciousness

#### **Potential Health Effects**

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

**Eves** 

May cause eye irritation.

Ingestion

Aspiration hazard if swallowed - can enter lungs and cause damage. May be

harmful if swallowed.

**Target Organs** 

Peripheral nervous system., Kidney, Testes.,

### 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### **Ecotoxicity effects**

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 2.5 mg/l - 96 h

Toxicity to daphnia

EC50 - Daphnia magna (Water flea) - 3,878.00 mg/l - 48 h

and other aquatic invertebrates.

Toxicity to algae

EC50 - Chlorella vulgaris (Fresh water algae) - 12,840.00 mg/l - 3 h

EC50 - SKELETOMA - 0.30 mg/l - 8 h

#### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 13. DISPOSAL CONSIDERATIONS

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN-No.: 1208

Class: 3

Packing group: II

Proper shipping name: Hexanes

IMDG

Packing group. II

UN-No.: 1208 Class: 3

Proper shipping name: HEXANES

EMS-No: F-E, S-D

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**DICE 01303** 

Marine pollutant: No

UN-No: 1208

Class: 3

Packing group: II

Proper shipping name: Hexanes

### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Flammable Liquid, Delayed target organ effects, Mild eye irritant, Reproductive hazard

#### **TSCA Status**

On TSCA Inventory

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components** 

CAS-No.

Revision Date

n-Hexane

110-54-3

1995-01-01

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

110-54-3

Revision Date

CAS-No.

1995-01-01

Pennsylvania Right To Know Components

CAS-No.

Revision Date

n-Hexane

n-Hexane

110-54-3

1995-01-01

**New Jersey Right To Know Components** 

CAS-No.

Revision Date

n-Hexane

110-54-3

1995-01-01

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

### 16. OTHER INFORMATION

#### **Further information**

Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only., The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any quarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product See reverse side of invoice or packing slip for additional terms and conditions of sale.

**DICE 01304** 

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### SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 3.1 Revision Date 05/14/2007 Print Date 09/13/2007

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Dichloromethane

**Product Number** 

D7566

Brand

Sigma

Company

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Fax

+1 800-325-5052

Emergency Phone #

: (314) 776-6555

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Methylene chloride

Formula

CH2Cl2

Molecular Weight

: 84.93 g/mol

CAS-No.	EC-No	Index-No	Concentration [%]
Methylene chloride			
75-09-2	200-838-9	602-004-00-3	

### 3. HAZARDS IDENTIFICATION

# Emergency Overview OSHA Hazards

Delayed target organ effects

Mild eye irritant Carcinogen

Teratogen

### **Target Organs**

Liver, pancreas, Blood

### **HMIS Classification**

Health Hazard 2

Chronic Health Hazard: \*

Flammability: 1 Physical hazards: 1

### **NFPA Rating**

Health Hazard: 2

Fire 1

Reactivity Hazard: 0

**DICE 01305** 

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### **Potential Health Effects**

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation

Skin Eves

May cause eye irritation
May be harmful if swallowed

#### 4. FIRST AID MEASURES

Ingestion

### General advice

Consult a physician Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point

100.0 °C (212 0 °F)

Ignition temperature

556.1 °C (1,033.0 °F)

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

### Handling

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**DICE 01306** 

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Methylene chloride	75-09-2	TWA	50 ppm 174 mg/m3	1996-05-18	US. American Conference of Governmental and

Sigma - D7566

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	ı	1	1	1	Library and Library 1994
					Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment, Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
Remarks	(PEL) and/o	or the NIOS 51, June 3	SH Recommende 0, 1993, for revise	d Exposure Limit ( ed OSHA PEL.\ lir	Permissible Exposure Limit (REL). See CFR 58(124) (RESubstance identified by other labels and Refers to Appendix A
	Carcinogen				<b>,</b>
		STEL	125 ppm	1997-04-04	US Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910 1000 Z-1-A
	63FR50711, medical rem	, 9/22/98 - loval prote	ction benefits for	employees and st	ng provision for temporary artup dates 62 FR 66275, compliance See 29 CFR
		TWA	25 ppm	1997-04-04	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910 1000 Z-1-A
	63FR50711, medical rem	9/22/98 - oval prote	ction benefits for	employees and sta	ng provision for temporary artup dates. 62 FR 66275, compliance.See 29 CFR
		STEL	125 ppm	1997-04-04	US. Department of Labor - Occupational Safety and Health Administration; (OSHA) Standards, Toxic and Hazardous Substances, Subpart Z 29 CFR Part 1910.1000, Table Z-2
· · ·	See 1910.10 (Z37.23-196	-	ene chloride	<del></del>	
	(251.25 150	TWA	25 ppm	1997-04-04	US. Department of Labor - Occupational Safety and Health Administration; (OSHA) Standards, Toxic and Hazardous Substances, Subpart Z 29 CFR Part 1910 1000, Table
					Z-2

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### Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Appearance**

Form

liquid

Colour

colourless

### Safety data

pН

no data available

Melting point

-97.0 °C (-142.6 °F)

Boiling point

40.0 °C (104.0 °F)

100.0 °C (212.0 °F)

Flash point Ignition temperature

556.1 °C (1,033.0 °F)

Lower explosion limit

12 %(V)

Upper explosion limit

19 %(V)

Vapour pressure

470.8 hPa (353 1 mmHg) at 20.0 °C (68.0 °F)

1,687.3 hPa (1,265.6 mmHg) at 55.0 °C (131.0 °F)

Density

1.32 g/cm3

Water solubility

slightly soluble

Partition coefficient

log Pow: 1.25

(n-octanol/water)

### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Alkali metals, Aluminum, Strong oxidizing agents, Bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides, Hydrogen chloride gas, Phosgene gas

**DICE 01308** 

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Sigma - D7566

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### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

LD50 Oral - rat - 1,600 mg/kg Remarks: Behavioral:Ataxia.

LC50 Inhalation - rat - 52,000 mg/m3

#### Irritation and corrosion

Skin - rabbit - Skin irritation - 24 h

Eyes - rabbit - Mild eye irritation - 24 h

### Sensitization

no data available

#### Chronic exposure

Carcinogenicity - rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Endocrine Tumors.

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Genotoxicity in vivo - rat - Oral

DNA damage

Laboratory experiments have shown teratogenic effects.

### Signs and Symptoms of Exposure

Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include., Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material., Abdominal pain

#### Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Eyes

Skin

May cause eye irritation. May be harmful if swallowed.

Ingestion
Target Organs

Liver, pancreas, Blood,

### 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

Sigma - D7566

### **Ecotoxicity effects**

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h

Toxicity to daphnia

and other aquatic

EC50 - Daphnia magna (Water flea) - 1,682 00 mg/l - 48 h

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**DICE 01309** 

invertebrates.

### Further information on ecology

no data available

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN-No., 1593 Class: 6.1

Packing group: III

Proper shipping name. Dichloromethane

**IMDG** 

UN-No. 1593

Class: 6.1

Packing group. III

EMS-No: F-A, S-A

Proper shipping name DICHLOROMETHANE

Marine pollutant: No

IATA

UN-No.: 1593

Class: 6.1

Packing group: III

Proper shipping name: Dichloromethane

### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Delayed target organ effects, Mild eye irritant, Carcinogen, Teratogen

### **TSCA Status**

On TSCA Inventory

#### **DSL Status**

All components of this product are on the Canadian DSL list

### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

Methylene chloride

CAS-No.

Revision Date

75-09-2

1987-01-01

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

Mathedana ablawda

CAS-No.

Revision Date

Methylene chloride

75-09-2

1987-01-01

Pennsylvania Right To Know Components

CAS-No.

Revision Date

Methylene chloride

75-09-2

1987-01-01

**New Jersey Right To Know Components** 

CAS-No.

Revision Date

Methylene chloride

75-09-2

1987-01-01

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**DICE 01310** 

2

### California Prop. 65 Components

WARNING! This product contains a chemical known in the State of California to cause cancer.

Methylene chloride

CAS-No 75-09-2

Revision Date 1992-10-26

### 16. OTHER INFORMATION

#### Further information-

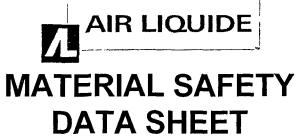
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**DICE 01311** 

Sigma - D7566

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Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS. Standards

### 1. PRODUCT AND COMPANY INFORMATION

**CHEMICAL NAME; CLASS:** 

BUTANE

SYNONYMS: n-Butane; Normal Butane; Butyl Hydride, Methyethylmethane

CHEMICAL FAMILY NAME: Alkane (hydrocarbon)

FORMULA: C<sub>4</sub>H<sub>10</sub>

PRODUCT USE:

Document Number 10035

For fuels and analytical/synthetic chemical,

welding and topical propellant uses.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive

Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

**DICE 01312** 

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW.** Butane is a colorless, liquefied, flammable gas, with a faint, disagreeable odor. The liquefied gas rapidly turns into a gas at standard atmospheric temperatures and pressures. Both the liquid and gas pose a serious fire hazard when accidentally released. The gas is heavier than air, and may spread long distances. Distant ignition and flashback are possible. Rapid escape of the gas from the cylinder may cause frostbite Flame or high temperature impinging on a localized area of the cylinder of Butane can cause the cylinder to burst or rupture without activating the cylinder's relief devices. Butane is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE. The most significant route of over-exposure for Butane is by inhalation

**INHALATION**: At high concentrations, Butane has anesthetic effects. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Butane in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION

### SYMPTOM OF EXPOSURE

12-16% Oxygen

Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen:

Emotional upset, abnormal fatigue, disturbed respiration.

6-10% Oxygen.

Nausea and vomiting, collapse or loss of consciousness

Below 6%.

Convulsive movements, possible respiratory collapse, and death

OTHER POTENTIAL HEALTH EFFECTS. Contact with rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact can quickly subside.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms** Over-exposure to n--Butane may cause the following health effects:

ACUTE. The most significant hazard associated with Butane is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color. Contact with the liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact can quickly subside.

CHRONIC. There are currently no known adverse health effects associated with chronic exposure to this compressed gas.

TARGET ORGANS. Respiratory system.

**DICE 01313** 

### 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
		ĺ	ACC	SIH	OSHA				
			TLV	STEL	PEL	STEL	IDLH	OTHER	
<u> </u>			ppm	ppm	ppm	ppm	ppm	ppm,	
Butane	106-97-8	95%	800	NE	800 (Vacated 1989 PEL)	NE	NE	NIOSH REL 800 ppm DFG MAK 1000 ppm	
Maximum Imp	the product Safety Data	l. All hazar a Sheet, per	rd information p	ertinent to Bi its of the OS	utane has beer	e hazards associated with a provided in this Matenal amunication Standard (29			

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-1993 format.

### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO BUTANE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary.

**SKIN EXPOSURE:** In the event of frostbite, remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath, which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER. NEVER USE DRY HEAT. If area of frostbite is extensive, and if possible, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention

Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen, painful and prone to infection when thawed If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

**EYE EXPOSURE**: If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

### 5. FIRE-FIGHTING MEASURES

FLASH POINT (Closed Cup): -60°C (-76°F)
AUTOIGNITION TEMPERATURE: 287°C (550°F)
FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 1.8% Upper (UEL): 8.4%

FIRE EXTINGUISHING MATERIALS. Extinguish Butane fires by shutting-off the source of the gas. Use water spray or a foam agent to cool fire-exposed containers, structures, and equipment

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide.

**DICE 01314** 

BUTANE - C4H10 MSDS

### 5. FIRE-FIGHTING MEASURES (Continued)

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of Butane can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact Not Sensitive.

Explosion Sensitivity to Static Discharge: Static discharge may cause Butane to ignite explosively, if released

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for preplanning can be found in the American Petroleum Institute Publications 2510 and 2510A.

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**. Evacuate immediate area Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Adequate fire protection must be provided.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response. Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (1.8%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

### 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of Butane could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Specific requirements are listed in NFPA 58. Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers)

Keep the smallest amount on-site as is necessary Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders

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BUTANE - C4H10 MSDS

### 7. HANDLING AND STORAGE (Continued)

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame.

Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

**After Use:** Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with Butane

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, <u>DO NOT USE ADAPTERS</u>

THREADED:

Gas Withdrawal - CGA 510

Liquid Withdrawal - CGA 555

<u>PIN-INDEXED YOKE</u>: Not applicable ULTRA HIGH INTEGRITY Not applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i e nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**: Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Butane does not reach its lower flammability limit of 1.8%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

RESPIRATORY PROTECTION. Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of Butane. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards

EYE PROTECTION: Safety glasses.

**HAND PROTECTION**: Wear leather gloves when handling cylinders of Butane. Otherwise, wear glove protection appropriate to the specific operation for which Butane is used.

**BODY PROTECTION**: Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

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BUTANE - C4H10 MSDS

### 9. PHYSICAL and CHEMICAL PROPERTIES

pH Not applicable

**MOLECULAR WEIGHT: 58.12** 

EXPANSION RATIO. Not applicable SPECIFIC VOLUME (ft<sup>3</sup>/lb) 6 3356

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.15537 lb/ft3 (2 489 kg/m3)

BOILING POINT: -0.5°C (31.1 F)

FREEZING/MELTING POINT (@ 10 psig): -138.4°C (-216.9°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 2.0064

SOLUBILITY IN WATER vol/vol at 37.8°C (100°F): 0.000 061

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD: 50,000 ppm

VAPOR PRESSURE @ 1.1°C (70°F) psig. 16.54

COEFFICIENT WATER/OIL DISTRIBUTION Log Kow = 289

APPEARANCE AND COLOR. Colorless, gas The liquid is also colorless

HOW TO DETECT THIS SUBSTANCE (warning properties): The faint disagreeable odor may be a warning property In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

STABILITY. Stable

**DECOMPOSITION PRODUCTS**: When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

HAZARDOUS POLYMERIZATION: Will not occur.

**CONDITIONS TO AVOID** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**: The following information is for pure Butane.

LC50 (mouse, inhalation) 680g/m3; 2-hour duration of exposure

LC50 (rat, inhalation): 658 mg/L, 4-hour duration of exposure

INHALATION (mouse) Butane is reported to be anesthetic to mice at 13% concentration in 25 minutes, at 22% in 1 minute.

INHALATION ( dog) Butane is reported to be anesthetic to dogs at 25% concentration. Butane is also a weak cardiac sensitizer (high concentrations can cause abnormal heartbeats in animals under stress)

**SUSPECTED CANCER AGENT**: Butane is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**: Butane is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue

**SENSITIZATION TO THE PRODUCT:** Butane is not known to cause sensitization in humans, however, some animals studies indicate that exposure to Butane can cause weak cardiac sensitization.

**REPRODUCTIVE TOXICITY INFORMATION**: Listed below is information concerning the effects of Butane on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for Butane.

Embryotoxcity. No embryotoxic effects have been described for Butane.

<u>Teratogenicity</u>: No teratogenicity effects have been described for Butane.

Reproductive Toxicity No reproductive toxicity effects have been described for Butane.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to the components of Butane.

**RECOMMENDATIONS TO PHYSICIANS**. Administer oxygen, if necessary; treat symptoms; reduce or eliminate exposure

BIOLOGICAL EXPOSURE INDICES (BEIs). Currently, Biological Exposure Indices (BEIs) are not applicable for Butane.

### 12. ECOLOGICAL INFORMATION

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ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas. The following environmental data are available for Butane.

BUTANE: Log Kow = 2.89 Water Solubility = 6.4 ppm at 25°C Log BCF (n-butane) = calculated, 1.78 and 1.97, respectively. Expected Half-life = 0.13 hr Bioconcentration factors do not indicate that bioconcentration in aquatic organisms is important

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on Butane's effects on aquatic life

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME.

HAZARD CLASS NUMBER and DESCRIPTION: 2,1 (Flammable Gas)

UN IDENTIFICATION NUMBER.

PACKING GROUP.

DOT LABEL(S) REQUIRED

Butane

**UN 1011** Not applicable

Flammable Gas

Flammable Gas NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996) 116

MARINE POLLUTANT: Butane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173 301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

U.S. SARA REPORTING REQUIREMENTS. Butane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370.21).

U.S. SARA Threshold Planning Quantity: Not applicable.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

CANADIAN DSL INVENTORY STATUS: Butane is listed on the Canadian DSL Inventory.

U.S. TSCA INVENTORY STATUS: Butane is listed on the TSCA Inventory.

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ALTERNATE DESCRIPTION:

Petroleum gases, liquefied

2.1 (Flammable Gas)

UN 1075

Not applicable.

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### 15. REGULATORY INFORMATION (Continued)

### OTHER U.S. FEDERAL REGULATIONS

- Butane was subject to the requirements of CFR 29 1910.1000 (under the 1989 PELs). Butane is no longer listed on Table Z 1
- Generally recognized as safe (GRAS) as an approved, propellant and pharmaceutical for topicals.
- Butane is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.
- Depending on specific operations involving the use of Butane, the regulations of the Process Safety Management
  of Highly Hazardous Chemicals may be applicable (29 CFR 1910 119) Under this regulation Butane is not
  listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in
  quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel
- Butane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Butane is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance. The threshold quantity for butane under this regulation is 10,000 lbs.

**OTHER CANADIAN REGULATIONS:** Butane is categorized as a Controlled Product, Hazard Classes A, and B1, as per the Controlled Product Regulations.

Michigan - Critical Materials Register:

STATE REGULATORY INFORMATION: Butane is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Butane California - Permissible Exposure Limits for Chemical Contaminants: Butane

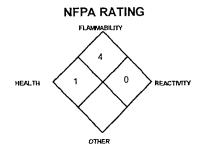
Florida - Substance List: No
Illinois - Toxic Substance List: Butane
Kansas - Section 302/313 List: No
Massachusetts - Substance List:
Butane

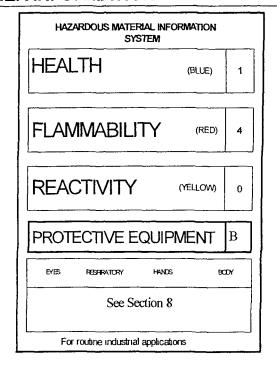
No
Minnesota - List of Hazardous
Substances: Butane
Missouri - Employer Information/Toxic
Substance List: Butane
New Jersey - Right to Know Hazardous
Substance List: Butane

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No Pennsylvania - Hazardous Substance List: Butane Rhode Island - Hazardous Substance List: Butane Texas - Hazardous Substance List: No. West Vırginia - Hazardous Substance List: No Wisconsin - Toxic and Hazardous Substances: No

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### 16. OTHER INFORMATION





### 16. OTHER INFORMATION (Continued)

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

SB-2 "Oxygen Deficient Atmospheres"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand:

1-800/231-1366



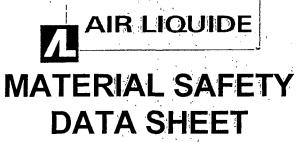
This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to Butane. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Butane is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

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**DICE 01321** 



Prepared to U S OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT AND COMPANY INFORMATION

CHEMICAL NAME; CLASS: ISOBUTANE

SYNONYMS: 2-Methylpropane;

CHEMICAL FAMILY: Alkane (hydrocarbon)

FORMULA: C<sub>4</sub>H<sub>10</sub>

PRODUCT USE Document Number. 20101

For fuel and synthetic chem

For fuel and synthetic chemical use; food additive, agricultural uses, aerosol propellant,

refrigerant.

AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE.** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE** 

General MSDS Information: 1-713/896-2896

Fax on Demand:

1-800/231-1366

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### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW** This product is a colorless, liquefied, flammable gas. Both the liquid and gas pose a serious fire hazard when accidentally released. Rapid evaporation of liquid from cylinder may cause frostbite. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to burst or rupture without activating the cylinder's relief devices. Isobutane is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Provide adequate fire protection during emergency response situations.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE.** The most significant route of over-exposure for this product is by inhalation.

**INHALATION** Isobutane also has some degree of anesthetic action and can be mildly irritating to the mucous membranes Isobutane can also be a narcotic at high concentrations. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Isobutane in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION SYMPTOM OF EXPOSURE

12-16% Oxygen: Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen Emotional upset, abnormal fatigue, disturbed respiration Nausea and vomiting, collapse or loss of consciousness

Below 6%: Convulsive movements, possible respiratory collapse, and death

**OTHER POTENTIAL HEALTH EFFECTS:** Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayishyellow. The pain after such contact can quickly subside.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms**. Over-exposure to this gas mixture may cause the following health effects:

**ACUTE**: The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas.

TARGET ORGANS: Respiratory system.

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### 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
			ACGIH		OSHA				
	}		TLV	STEL	PEL	STEL	IDLH	OTHER	
			ppm	ppm	ppm	ppm	Ppm	ppm	
Isobutane	75-28-5	> 95%	Simple Asphyxiant	NE	800 (Vacated 1989 PEL)	NE	NE	NIOSH REL 800 ppm	
Maximum Impurities <5%			product All I Safety Data S	nazard infon Sheet, per th	nation pertinent	to this prod of the OSH	luct has bee	lazards associated with the en provided in this Material ommunication Standard (29	

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format

### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary.

SKIN EXPOSURE: Exposure to the liquefied gas can cause frostbite. Remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath, which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER. NEVER USE DRY HEAT. If area of frostbite is extensive, and if possible, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention

Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering

**EYE EXPOSURE**: If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

### 5. FIRE-FIGHTING MEASURES

FLASH POINT: -159°C (-254°F)

**AUTOIGNITION TEMPERATURE: 462°C (864°F)** 

FLAMMABLE LIMITS (in air by volume, %):

<u>Lower (LEL)</u> 1 8% <u>Upper (UEL)</u>: 8 4%

FIRE EXTINGUISHING MATERIALS Extinguish Isobutane fires by shutting-off the source of the gas Use water spray to cool fire-exposed containers, structures, and equipment.

### 5. FIRE-FIGHTING MEASURES (Continued)

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**UNUSUAL FIRE AND EXPLOSION HAZARDS**. When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide.

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact. Not sensitive

Explosion Sensitivity to Static Discharge: Static discharge may cause this product to ignite explosively, if released

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for preplanning can be found in the American Petroleum Institute Publications 2510 and 2510A

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be **Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus.** Use only non-sparking tools and equipment Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (1.8%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

### 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES. Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms. Non-sparking tools should be used.

STORAGE AND HANDLING PRACTICES. Specific requirements are listed in NFPA 58. Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0 5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers)

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### 7. HANDLING AND STORAGE (Continued)

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS. Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY"

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with this product.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS:

THREADED: 0-500 PSIG - CGA 510

PIN-INDEXED YOKE Not Applicable

ULTRA HIGH INTEGRITY: Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS** Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Isobutane does not reach its lower flammability limit of 1.8%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

**RESPIRATORY PROTECTION** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards

**EYE PROTECTION** Safety glasses.

**HAND PROTECTION**: Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used. Use low-temperature protective gloves when working with containers of Liquid Isobutane.

**BODY PROTECTION** Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

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### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.114 74 lb/ft3 (2.4787 kg/m3)

**BOILING POINT: -11.72°C (10.9°F)** 

FREEZING/MELTING POINT @ 10 psig: -159°C (-255.3°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 2.006 36 pH Not applicable.

SOLUBILITY IN WATER vol/vol @ 37.8°C (100°F): 0 052 MOLECULAR WEIGHT: 58.12

EVAPORATION RATE (nBuAc = 1): Not applicable

EXPANSION RATIO Not applicable

ODOR THRESHOLD 1800 mg/m<sup>3</sup>

SPECIFIC VOLUME (ft³/lb): 6.33

VAPOR PRESSURE @ 21.1°C (70°F) psig. 30.58

COEFFICIENT WATER/OIL DISTRIBUTION. Not applicable.

APPEARANCE AND COLOR. Colorless, odorless gas which is shipped as a liquefied gas under its own vapor pressure.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation

### 10. STABILITY and REACTIVITY

STABILITY. Stable.

**DECOMPOSITION PRODUCTS:** When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

HAZARDOUS POLYMERIZATION Will not occur

**CONDITIONS TO AVOID** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**. The following toxicology data are available for Isobutane:

ISOBUTANE:

Inhalation-Rat LC<sub>50</sub> 57 pph/ 15 minute Inhalation-Mouse LCLo 1041 g/m³/ 2 hour

**SUSPECTED CANCER AGENT**: Isobutane is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**: Isobutane can cause some imitation to mucus membranes In addition, contact with rapidly expanding gases can cause frostbite to exposed tissue.

**SENSITIZATION TO THE PRODUCT**: Isobutane is not known to cause sensitization in humans; however, Isobutane is considered a weak heart sensitizing agent, based on animal tests

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Isobutane on the human reproductive system.

Mutagenicity No mutagenicity effects have been described for Isobutane

Embryotoxicity No embryotoxic effects have been described for Isobutane.

Teratogenicity No teratogenicity effects have been described for Isobutane.

Reproductive Toxicity. No reproductive toxicity effects have been described for Isobutane

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

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**EFFECTIVE DATE: AUGUST 31, 2005** 

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### 11. TOXICOLOGICAL INFORMATION (Continued)

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to Isobutane

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Isobutane.

**RECOMMENDATIONS TO PHYSICIANS**: Administer oxygen, if necessary; treat symptoms, reduce or eliminate exposure.

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS**. Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life.

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on this product's effects on aquatic life

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

ALTERNATE DESCRIPTION:

PROPER SHIPPING NAME:

Isobutane

Petroleum gases, liquefied 2.1 (Flammable Gas)

HAZARD CLASS NUMBER and DESCRIPTION: 2.1 (Flammable Gas)

UN 1075

UN IDENTIFICATION NUMBER: PACKING GROUP:

UN 1969 Not applicable

Not applicable.

DOT LABEL(S) REQUIRED:

Flammable Gas

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT: Isobutane is not classified by the DOT as Manne Pollutants (as defined by 49 CFR 172.101, Appendix B)

**SPECIAL SHIPPING INFORMATION**: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

**NOTE** Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173 301 (b)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS Isobutane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370.21)

SARA THRESHOLD PLANNING QUANTITY: Not applicable.

TSCA INVENTORY STATUS: Isobutane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

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### 15. REGULATORY INFORMATION (Continued)

### OTHER U.S. FEDERAL REGULATIONS.

- Generally recognized as safe, (GRAS) as a direct human food ingredient when used as a propellant, aerating agent and gas
- · Isobutane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Isobutane is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for of this gas is 10,000 pounds.
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Isobutane is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel.
- Isobutane is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance. The threshold quantity for Isobutane under this regulation is 10,000 lbs.

**OTHER CANADIAN REGULATIONS:** Isobutane is categorized as a Controlled Product, Hazard Classes A, and B1 as per the Controlled Product Regulations.

### STATE REGULATORY INFORMATION: Isobutane is covered under specific State regulations, as denoted below

Alaska - Designated Toxic and Hazardous Substances: Isobutane

California - Permissible Exposure Limits for Chemical Contaminants: Isobutane Florida - Substance List: No

Illinois - Toxic Substance List: Isobutane. Kansas - Section 302/313 List: No. Massachusetts - Substance List: Isobutane Minnesota - List of Hazardous Substances: Isobutane

Missouri - Employer Information/Toxic Substance List: Isobutane

New Jersey - Right to Know Hazardous Substance List: Isobutane

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Isobutane

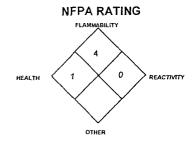
Rhode Island - Hazardous Substance List: Isobutane.

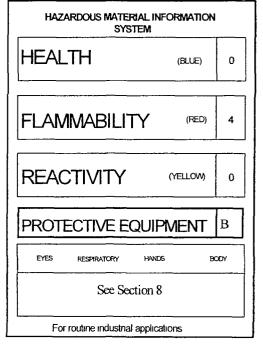
Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No

Wisconsin - Toxic and Hazardous Substances: No.

CALIFORNIA PROPOSITION 65 Isobutane is not on the California Proposition 65 lists.

### 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

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### 16. OTHER INFORMATION (Continued)

Further information can be found in the following pamphlets published by Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone. (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

SB-2 "Oxygen Deficient Atmospheres"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand:

1-800/231-1366

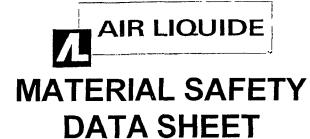


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

ISOBUTANE - C4H10 MSDS

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Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT AND COMPANY INFORMATION

CHEMICAL NAME; CLASS: ISOBUTYLENE

**SYNONYMS:** 2-Methylpropane; Isobutylene USP **CHEMICAL FAMILY:** Alkane (hydrocarbon)

FORMULA: C<sub>4</sub>H<sub>8</sub>

PRODUCT USE:

Document Number. 20103

For fuel and synthetic chemical use, food additive, agricultural uses, aerosol propellant,

refrigerant.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information: 1-713/896-2896

Fax on Demand:

1-800/231-1366

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW**: This product is a colorless, liquefied, flammable gas. The gas has an unpleasant odor similar to burning coal. Both the liquid and gas pose a serious fire hazard when accidentally released. Rapid evaporation of liquid from cylinder may cause frostbite. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to burst or rupture without activating the cylinder's relief devices. Isobutylene is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere Isobutylene can also be a narcotic at high concentrations. Provide adequate fire protection during emergency response situations

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE** The most significant route of over-exposure for this product is by inhalation.

**INHALATION** Isobutylene also has some degree of anesthetic action and can be mildly irritating to the mucous membranes. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Isobutylene in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

### CONCENTRATION SYMPTOM OF EXPOSURE

12-16% Oxygen Breathing and pulse rate increased, muscular coordination slightly disturbed

10-14% Oxygen Emotional upset, abnormal fatigue, disturbed respiration 6-10% Oxygen: Nausea and vomiting, collapse or loss of consciousness

Below 6%: Convulsive movements, possible respiratory collapse, and death

OTHER POTENTIAL HEALTH EFFECTS: Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after such contact can quickly subside.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms Over-exposure to this gas mixture may cause the following health effects.

**ACUTE**. The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color. Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact with liquid can quickly subside.

CHRONIC There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas.

**TARGET ORGANS**: Respiratory system.

ISOBUTYLENE - C4H8 MSDS

### 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
		<u> </u>	ACGIH		OSHA				
			TLV	STEL	PEL	STEL	IDLH	OTHER	
			ppm	ppm	ppm	ppm	Ppm	ppm	
Isobutylene	115-11-7	> 99%	There are no specific exposure limits for Isobutylene Isobutylene is a simple asphyxiant (SA) Oxygen levels should be maintained above 19 5%						
Maximum Impu	urities	< 1%	None of the trace impurities in this product contribute significantly to the haz with the product. All hazard information pertinent to this product has been Material Safety Data Sheet, per the requirements of the OSHA Hazard Standard (29 CFR 1910 1200) and State equivalents standards.					ict has been provided in this SHA Hazard Communication	

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE ≈ Not Established

C = Ceiling Limit

NOTE, all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format

### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Only trained personnel should administer supplemental oxygen SKIN EXPOSURE: Exposure to the liquidied gas can cause frosthite. Remove any clothing that may restrict

SKIN EXPOSURE: Exposure to the liquefied gas can cause frostbite. Remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath, which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER. NEVER USE DRY HEAT. If area of frostbite is extensive, and if possible, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention.

Frozen tissue is painless and appears waxy, with a possible yellow color Frozen tissue will become swollen, painful and prone to infection when thawed If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering

**EYE EXPOSURE**: If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

### 5. FIRE-FIGHTING MEASURES

FLASH POINT. -10°C (< 14°F)

**AUTOIGNITION TEMPERATURE: 465°C (869°F)** 

FLAMMABLE LIMITS (in air by volume, %): Lower (LEL). 1.8% Upper (UEL). 9.6%

**FIRE EXTINGUISHING MATERIALS**: Extinguish Isobutylene fires by shutting-off the source of the gas. Use water spray to cool fire-exposed containers, structures, and equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide

ISOBUTYLENE - C4H8 MSDS

### 5. FIRE-FIGHTING MEASURES (Continued)

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles, if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact. Not sensitive

Explosion Sensitivity to Static Discharge: Static discharge may cause this product to ignite explosively, if released.

**SPECIAL FIRE-FIGHTING PROCEDURES**: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for preplanning can be found in the American Petroleum Institute Publications 2510 and 2510A.

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate

Combustible gas concentration must be below 10% of the LEL (1 8%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained

### 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Specific requirements are listed in NFPA 58. Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders

ISOBUTYLENE - C4H8 MSDS

# 7. HANDLING AND STORAGE (Continued)

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY"

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with this product. Close valve after each use and when empty.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS

THREADED: 0-500 PSIG - CGA 510
PIN-INDEXED YOKE. Not Applicable.
ULTRA HIGH INTEGRITY Not Applicable

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**. Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure isobutylene does not reach its lower flammability limit of 1 8%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

**RESPIRATORY PROTECTION**. Maintain oxygen levels above 195% in the workplace. Use supplied air respiratory protection if oxygen levels are below 195% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

EYE PROTECTION: Safety glasses.

**HAND PROTECTION**: Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used. Use low-temperature protective gloves when working with containers of Liquid Isobutylene.

**BODY PROTECTION** Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

ISOBUTYLENE - C4H8 MSDS

### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0 14957 lb/ft<sup>3</sup> (2.3959 kg/m<sup>3</sup>)

BOILING POINT -6 9°C (19.6°F)

FREEZING/MELTING POINT @ 10 psig -140°C (-220.6°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 1 997

SOLUBILITY IN WATER vol/vol @37.8°C (100°F): Insoluble.

EVAPORATION RATE (nBuAc = 1): Not applicable.

**ODOR THRESHOLD** Not determined

VAPOR PRESSURE @ 21.1°C (70°F) psig. 23.85

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

pH: Not applicable.MOLECULAR WEIGHT: 56.108

EXPANSION RATIO: Not applicable. SPECIFIC VOLUME (ft³/lb): 6.54

APPEARANCE AND COLOR. Colorless gas which is shipped as a liquefied gas under its own vapor pressure. The gas has an unpleasant odor similar to burning coal

HOW TO DETECT THIS SUBSTANCE (warning properties): The unpleasant odor may be a warning property. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

STABILITY Stable

**DECOMPOSITION PRODUCTS:** When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

HAZARDOUS POLYMERIZATION: Will not occur.

**CONDITIONS TO AVOID** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicity data are applicable for pure Isobutylene.

LC50 (inhalation, rat) = 620,000 mg/kg/4 hours LC50 (inhalation, mouse) = 415,000 mg/kg

SUSPECTED CANCER AGENT Isobutylene is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**: Isobutylene can cause some irritation to mucus membranes. In addition, contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION TO THE PRODUCT: Isobutylene is not known to cause sensitization in humans.

**REPRODUCTIVE TOXICITY INFORMATION**: Listed below is information concerning the effects of Isobutylene on the human reproductive system.

Mutagenicity. No mutagenicity effects have been described for Isobutylene gas

Embryotoxcity No embryotoxic effects have been described for Isobutylene gas.

Teratogenicity No teratogenicity effects have been described for this Isobutylene gas.

Reproductive Toxicity. No reproductive toxicity effects have been described for Isobutylene gas.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to the components of this product

ISOBUTYLENE - C4H8 MSDS

# 11. TOXICOLOGICAL INFORMATION (Continued)

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Isobutylene.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary, treat symptoms; reduce or eliminate exposure

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life.

EFFECT OF CHEMICAL ON AQUATIC LIFE No evidence is currently available on this product's effects on aquatic life.

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations Return cylinders with any residual product to Air Liquide Do not dispose of locally

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors, away from all sources of ignition.

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Isobutylene

Alternate Description: Petroleum gases, liquefied

HAZARD CLASS NUMBER and DESCRIPTION: 2 1 (Flammable Gas)

2.1 (Flammable Gas)

UN IDENTIFICATION NUMBER:

UN 1055 Not applicable.

UN 1075 Not applicable.

PACKING GROUP: DOT LABEL(S) REQUIRED:

Flammable Gas

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT: Isobutylene is not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present senous safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS Use the above information for the preparation of Canadian Shipments

### 15. REGULATORY INFORMATION

U.S. SARA REPORTING REQUIREMENTS. Isobutylene is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370.21)

U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

CANADIAN DSL INVENTORY STATUS: Isobutylene is listed on the Canadian DSL Inventory.

U.S. TSCA INVENTORY STATUS: Isobutylene is listed on the TSCA Inventory.

ISOBUTYLENE - C4H8 MSDS

# 15. REGULATORY INFORMATION (Continued)

### OTHER U.S. FEDERAL REGULATIONS

- Isobutylene does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Isobutylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for of this gas is 10,000 pounds.
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119) Under this regulation Isobutylene is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel
- Isobutylene is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance. The threshold quantity for Isobutane under this regulation is 10,000 lbs.

**OTHER CANADIAN REGULATIONS:** Isobutylene is categorized as a Controlled Product, Hazard Classes A, and B1 as per the Controlled Product Regulations

U.S. STATE REGULATORY INFORMATION: Isobutylene is covered under specific State regulations, as denoted below

Alaska - Designated Toxic and Hazardous Substances: Liquefied Petroleum Gas

California - Permissible Exposure
Limits for Chemical Contaminants:
Florida - Substance List: Isobutylene
Illinois - Toxic Substance List:

Liquefied Petroleum Gas
Kansas - Section 302/313 List: No
Massachusetts - Substance List:

Isobutylene

Minnesota - List of Hazardous Substances: Isobutylene

Missouri - Employer Information/Toxic Substance List: Liquefied Petroleum Gas

New Jersey - Right to Know Hazardous Substance List: Isobutylene

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No. Pennsylvania - Hazardous Substance List: Isobutylene.

Rhode Island - Hazardous Substance List; Liquefied Petroleum Gas.

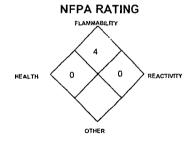
Texas - Hazardous Substance List: Liquefied Petroleum Gas

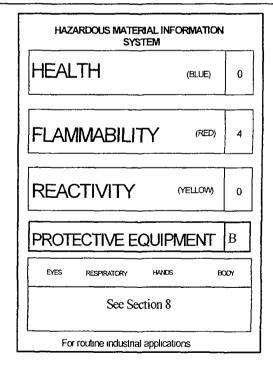
West Virginia - Hazardous Substance List: Liquefied Petroleum Gas.

Wisconsin - Toxic and Hazardous Substances: Liquefied Petroleum Gas.

CALIFORNIA PROPOSITION 65: Isobutylene is not on the California Proposition 65 lists

# **16. OTHER INFORMATION**





# 16. OTHER INFORMATION (Continued)

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

SB-2 "Oxygen Deficient Atmospheres"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

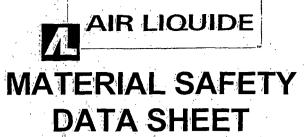
Fax on Demand:

1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

ISOBUTYLENE - C4H8 MSDS



Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

# 1. PRODUCT AND COMPANY INFORMATION

**CHEMICAL NAME; CLASS:** 

**ETHANE** 

**SYNONYMS:** Bimethyl, Dimethyl, Ethyl Hydride, Methylmethane

CHEMICAL FAMILY NAME: Saturated Aliphatic Hydrocarbon / Alkane

FORMULA: C<sub>2</sub>H<sub>6</sub>

PRODUCT USE:

Document Number: 20061

For fuel and synthetic chemical uses:

refrigerant.

AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

CHEMTREC: 1-800-424-9300

EMERGENCY PHONE:

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

ETHANE - C2H6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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### 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Ethane is an colorless, odorless, flammable gas. The gas poses a serious fire hazard when it is accidentally released. This gas acts as a simple asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. The gas is slightly heavier than air, and may spread long distances Distant ignition and flashback are possible. Rapid expanding gas from cylinder may cause frostbite. Flame or high temperature impinging on a localized area of the cylinder of Ethane can cause the cylinder to rupture or burst without activating the cylinder's relief devices Provide adequate fire protection during all emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for Ethane is by inhalation.

INHALATION: Inhalation of concentrations above 5% can produce anesthetic effects. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Ethane in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION

SYMPTOM OF EXPOSURE

12-16% Oxygen:

Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen:

Emotional upset, abnormal fatigue, disturbed respiration.

6-10% Oxygen.

Nausea and vomiting, collapse or loss of consciousness

Below 6%:

Convulsive movements, possible respiratory collapse, and death.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms Over-exposure to Ethane may cause the following health effects.

The most significant hazard associated with Ethane is inhalation of oxygen-deficient atmospheres Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to this compressed gas.

TARGET ORGANS Respiratory system.

# 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR				MR		
			ACGIH			OSHA			
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	OTHER	
Ethane	74-84-0	> 95 0%	There are no specific exposure limits for Ethane Ethane is a simple asphyxiant (SA). Oxygen levels should be maintained above 19 5%						
Maximum Impunties	5	< 5 0%	None of the trace impurities in Ethane contribute significantly hazards associated with the product. All hazard information perfit Ethane has been provided in this Material Safety Data Sheet, prequirements of the OSHA Hazard Communication Standard (2 1910 1200) and State equivalents standards.					pertinent to leet, per the	

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format.

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### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO ETHANE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Only trained personnel should administer supplemental oxygen.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

### 5. FIRE-FIGHTING MEASURES

FLASH POINT -135°C (-211°F)

AUTOIGNITION TEMPERATURE 515 °C (959 °F)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 3%

Upper (UEL): 12 5%

**FIRE EXTINGUISHING MATERIALS**: Extinguish fires by shutting-off the source of the gas. Use water spray or a foam agent to cool fire-exposed containers, structures, and equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: When involved in a fire, this gas will decompose and produce toxic gases including carbon monoxide and carbon dioxide. An extreme fire hazard exists in areas in which the gas has been released, but the material has not yet ignited.

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of Ethane can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion\_Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Static discharge may cause Ethane to ignite explosively, if released

**SPECIAL FIRE-FIGHTING PROCEDURES**: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for preplanning can be found in the American Petroleum Institute Publications 2510 and 2510A, the North American Emergency Response Guidebook.

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (3%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

ETHANE - C2H6 MSDS

### 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, exposures to fatal concentrations of Ethane could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Specific requirements are listed in NFPA 58 Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity).

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS. Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with "leak detection solution, never with flame." Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage Earth-ground and bond all lines and equipment associated with Ethane. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS

THREADED: 0-3000 PSIG - CGA 350

PIN-INDEXED YOKE: Not Applicable.

ULTRA HIGH INTEGRITY Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

ETHANE - C2H6 MSDS

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS.** Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Ethane does not reach its lower flammability limit of 3%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas

RESPIRATORY PROTECTION: Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of Ethane During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910 134), or equivalent State standards.

EYE PROTECTION Safety glasses.

**HAND PROTECTION**: Wear leather gloves when handling cylinders of Ethane Otherwise, wear glove protection appropriate to the specific operation for which Ethane is used Use low-temperature protective gloves when working with containers of Liquid Ethane

**BODY PROTECTION** Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 101.325 kPa @ 25°C (77°F), air = 1: 1.048

**BOILING POINT** -88 6°C (-127 5°F)

FREEZING/MELTING POINT (@ 10 psig): -183.1°C (-297.9°F)

**SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F):** 1.048

SOLUBILITY IN WATER vol/vol @ 20°C (68°F): 0 047

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD. Not applicable.

VAPOR PRESSURE @ 21.1°C (70°F) psig: 544

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

APPEARANCE AND COLOR. Colorless, odorless gas

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation

### 10. STABILITY and REACTIVITY

STABILITY Stable.

DECOMPOSITION PRODUCTS. When ignited in the presence of oxygen, this gas will burn to produce carbon

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride)

HAZARDOUS POLYMERIZATION Will not occur.

**CONDITIONS TO AVOID**: Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA The following information is for pure Ethane.

Guinea pigs breathing about 2 2 to 5% Ethane for 2 hours showed signs of irregular breathing and slight drowsiness, but no other health effects. At concentrations of 15-19%, when mixed with oxygen, Ethane is a weak cardiac sensitizer. There were no signs of anesthesia in animals breathing an ethane/oxygen mixture (80% ethane/20% oxygen) for up to 3.75 hours.

**SUSPECTED CANCER AGENT** Ethane is not found on the following lists FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies

**IRRITANCY OF PRODUCT** Ethane is not irritating, however, contact with rapidly expanding gases can cause frostbite to exposed tissue

ETHANE - C2H6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

pH. Not applicable.

**MOLECULAR WEIGHT: 30 08** 

**EXPANSION RATIO** Not applicable **SPECIFIC VOLUME (ft³/lb)**. 12.5151

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# 11. TOXICOLOGICAL INFORMATION (Continued)

SENSITIZATION TO THE PRODUCT: Ethane is not known to cause sensitization in humans; however, some animals studies indicate that exposure to Ethane can cause weak cardiac sensitization

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Ethane on the human reproductive system

Mutagenicity: No mutagenicity effects have been described for Ethane.

Embryotoxcity: No embryotoxic effects have been described for Ethane

Teratogenicity. No teratogenicity effects have been described for Ethane.

Reproductive Toxicity: No reproductive toxicity effects have been described for Ethane.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE. Acute or chronic respiratory conditions may be aggravated by over-exposure to Ethane.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary; treat symptoms, reduce or eliminate exposure

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Ethane.

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY Ethane occurs naturally in the atmosphere This gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on Ethane's effects on aquatic life.

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

# 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF **TRANSPORTATION** 

PROPER SHIPPING NAME:

Ethane, compressed

HAZARD CLASS NUMBER and DESCRIPTION: 2.1 (Flammable Gas)

UN IDENTIFICATION NUMBER.

UN 1035

PACKING GROUP.

Not applicable.

DOT LABEL(S) REQUIRED.

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT. Ethane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173,301 (b)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS Use the above information for the preparation of Canadian Shipments.

ETHANE - C2H6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS. Ethane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370 21)

SARA THRESHOLD PLANNING QUANTITY Not applicable.

TSCA INVENTORY STATUS: Ethane is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITY (RQ): Not applicable

OTHER U.S. FEDERAL REGULATIONS:

- Ethane is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds
- Depending on specific operations involving the use of Ethane, the regulations of the Process Safety Management
  of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Ethane is not listed
  in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of
  10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel
- Ethane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Ethane is listed under Table 3 as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance The threshold quantity for butane under this regulation is 10,000 lbs

**OTHER CANADIAN REGULATIONS:** Ethane is categorized as a Controlled Product, Hazard Classes A, and B1, as per the Controlled Product Regulations.

STATE REGULATORY INFORMATION: Ethane is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Ethane

California - Permissible Exposure Limits for Chemical Contaminants: Ethane

Florida - Substance List: No Illinois - Toxic Substance List: Ethane Kansas - Section 302/313 List: No Massachusetts - Substance List: Ethane Minnesota - List of Hazardous Substances: Ethane

Missouri - Employer Information/Toxic Substance List: Ethane.

New Jersey - Right to Know Hazardous Substance List: Ethane

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.

Pennsylvania - Hazardous Substance List: Ethane

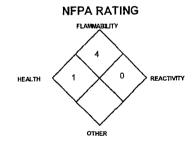
Rhode Island - Hazardous Substance List: Ethane

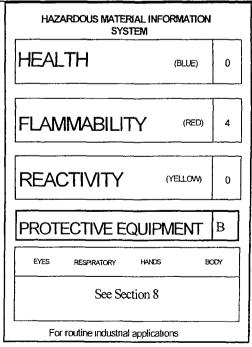
Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No.

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65 Ethane is not on the California Proposition 65 lists.

# 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before ETHANE - C<sub>2</sub>H<sub>6</sub> MSDS

EFFECTIVE DATE: AUGUST 31, 2005

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# 16. OTHER INFORMATION (Continued)

you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

AV-1 "Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand:

1-800/231-1366

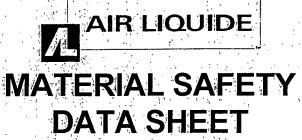


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to Ethane. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Ethane is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

ETHANE - C4H6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT AND COMPANY INFORMATION

**TETRAFLUOROMETHANE** CHEMICAL NAME; CLASS:

SYNONYMS: Carbon Tetrafluoromethane, Carbon Tetrafluororide; Fluorocarbon 14; FC 14;

Freon 14, Halon 14; R-14

CHEMICAL FAMILY NAME: Halogenated Aliphatic Hydrocarbon

FORMULA: CF4

PRODUCT USE:

Document Number: 20159

Refrigerant; gaseous insulator; propellant in insecticidal aerosols, as a solvent; chemical intermediate; dry etchant in microchip

manufacture.

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

BUSINESS PHONE:

General MSDS Information 1-713/896-2896 Fax on Demand:

1-800/231-1366

### 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Tetrafluoromethane is an odorless, colorless non-flammable, liquefied gas. Tetrafluoromethane can cause central nervous system depression after inhalation exposures. Symptoms of such cover-exposure can include drowsiness, fatigue, and weakness. At high concentrations, the gas can act as an asphyxiant, by displacing oxygen. Therefore, exposure to high concentrations of this gas can be fatal. Frostbite can be caused by contact with rapidly expanding gases or the liquefied gas. This gas is not flammable and not reactive in normal emergency response situations. However, if involved in a fire, this product can decompose to produce toxic gases (i.e. hydrogen fluoride, phosgene)

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas is by inhalation

**INHALATION:** Exposures to high concentrations of this gas may cause sensitization of the heart to adrenaline and nor-adrenaline Effects of such over-exposure can include light-headedness, giddiness, shortness of breath and in extreme cases, irregular heartbeats, cardiac arrest, and death.

High concentrations of this gas can cause an oxygen-deficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses.

Under some circumstances of over-exposure, death may occur, due to the displacement of oxygen. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION

### SYMPTOM OF EXPOSURE

12-16% Oxygen.

Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen

Emotional upset, abnormal fatigue, disturbed respiration. Nausea and vomiting, collapse or loss of consciousness.

6-10% Oxygen: Below 6%

Convulsive movements, possible respiratory collapse, and death.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms Over-exposure Tetrafluoromethane may cause the following health effects

**ACUTE**: The most significant hazard associated with this gas is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to this product.

TARGET ORGANS: Respiratory system

### 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
			ACG	ilH					
	*		TLV	STEL	PEL	STEL	IDLH	OTHER	
		<u></u>	ppm	ppm	ppm	ppm	ppm		
Tetrafluoromethane ;	75-73-0	100	There are no specific exposure limits for Tetrafluoromethane Tetrafluoromethane an asphyxiant. Oxygen levels should be maintained above 19 5%						

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE, all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400,1-2004 format

### 4 FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus should be worn.

Remove victim(s) to fresh air, as quickly as possible. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Only trained personnel should administer supplemental oxygen.

TETRAFLUOROMETHANE - CF4 MSDS

# 4 FIRST-AID MEASURES (Continued)

SKIN EXPOSURE: Contact with the liquid or rapidly expanding gases can cause frostbite. In the event of frostbite, medical attention must be sought. Frozen tissue is painless and appears waxy, with a possible yellow color Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

EYE EXPOSURE. If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

### 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS (in air by volume, %)

<u>Lower (LEL)</u>: Not applicable <u>Upper (UEL)</u>: Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable, meet gas Use extinguishing media appropriate for surrounding fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** When involved in a fire, this material may decompose and produce toxic gases (i.e. hydrogen fluoride, and carbonyl fluoride). Tetrafluoromethane does not burn, however, containers, when involved in fire, may rupture or burst in the heat of the fire

Explosion Sensitivity to Mechanical Impact. Not sensitive. Explosion Sensitivity to Static Discharge: Not sensitive.

**SPECIAL FIRE-FIGHTING PROCEDURES**. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**. Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel

Minimum Personal Protective Equipment should be: **Level B: Self-Contained Breathing Apparatus.** Locate and seal the source of the leaking gas. Allow the gas, which is heavier than air to dissipate. Monitor the surrounding area for oxygen levels. The atmosphere must have at least 19 5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

If leaking incidentally from the cylinder or its valve, contact your supplier.

### 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, exposures to fatal concentrations of this product could occur without any significant warning symptoms, due to oxygen deficiency

STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Use only storage containers and equipment (pipes, valves, fittings to relieve pressure, etc.) designed for the temperatures and pressures for the use and storage of Liquid Tetrafluoromethane.

Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders

TETRAFLUOROMETHANE - CF4 MSDS

# 7. HANDLING AND STORAGE (Continued)

Keep the smallest amount necessary on site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gashandling fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for gas storage. Close valve after each use and when empty

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, DO NOT USE ADAPTERS

THREADED:

0-3000 psig - CGA 580

PIN-INDEXED YOKE:

Not Applicable.

ULTRA HIGH INTEGRITY.

Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**: Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen.

**RESPIRATORY PROTECTION**: Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

EYE PROTECTION. Safety glasses.

**HAND PROTECTION**: Wear leather gloves or glove protection appropriate to the specific operation for which this product is used.

**BODY PROTECTION** Use body protection appropriate for task. Safety shoes are recommended when handling cylinders.

### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.228 lb/ft<sup>3</sup> (3 65 kg/m<sup>3</sup>)

**BOILING POINT @ 1 atm:** -127:9°C (198 3°F -)

FREEZING/MELTING POINT @ 325 psia: -183.6°C (-298 5°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F) and 1 atm: 3.050

SOLUBILITY IN WATER weight % @ 25°C (77°F): 0.0015

EVAPORATION RATE (nBuAc = 1): Not applicable.

**ODOR THRESHOLD**: Not applicable

VAPOR PRESSURE: Not applicable.

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

APPEARANCE AND COLOR Colorless, odorless, non-flammable gas

pH: Not applicable.

MOLECULAR WEIGHT: 88 01

**EXPANSION RATIO**: Not applicable.

SPECIFIC VOLUME (ft³/lb): 4.38

TETRAFLUOROMETHANE - CF4 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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# 9. PHYSICAL and CHEMICAL PROPERTIES (Continued)

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

STABILITY: Normally stable.

**DECOMPOSITION PRODUCTS** If Tetrafluoromethane is exposed to fire, it may decompose yielding toxic products (i.e. hydrogen fluoride, carbonyl fluoride).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: The following materials are not compatible with this product, aluminum, carbon dioxide above 1000 °C; alloys of more than 2% magnesium in the presence of water Silver and copper-bearing alloys can act as catalysts for the decomposition of this product at high temperatures

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible materials and avoid exposing cylinders to extremely high temperatures, which could cause the cylinders to rupture or burst

### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA The following information is available for Tetrafluoromethane.

LCLo (inhalation, rat) = 890000 ppm/15 minutes

**SUSPECTED CANCER AGENT**. Tetrafluoromethane is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies:

**IRRITANCY OF PRODUCT** Tetrafluoromethane is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION OF PRODUCT: Tetrafluoromethane is not known to cause sensitization in humans.

**REPRODUCTIVE TOXICITY INFORMATION:** Listed below is information concerning the effects Tetrafluoromethane on the human reproductive system.

Mutagenicity: Tetrafluoromethane is not expected to cause mutagenic effects in humans.

Embryotoxcity: Tetrafluoromethane is not expected to cause embryotoxic effects in humans

Teratogenicity: Tetrafluoromethane is not expected to cause teratogenic effects in humans.

Reproductive Toxicity: Tetrafluoromethane is not expected to cause adverse reproductive effects in humans.

A' <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Pre-existing respiratory conditions and cardio-vascular conditions may be aggravated by over-exposure to Tetrafluoromethane

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Tetrafluoromethane.

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS**: Any adverse effect on animals would be related to adverse effects on the cardiovascular system and to exposure to oxygen deficient environments. The symptoms expenenced by over-exposed animals would be similar to those described for exposed humans. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

TETRAFLUOROMETHANE - CF4 MSDS

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors.

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Tetrafluoromethane

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)

UN IDENTIFICATION NUMBER.

UN 1982

PACKING GROUP:

Not applicable

DOT LABEL(S) REQUIRED.

Non-Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 126

MARINE POLLUTANT Tetrafluoromethane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Tetrafluoromethane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA Threshold Planning Quantity: Not applicable.

TSCA INVENTORY STATUS Tetrafluoromethane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITIES (RQ) Not applicable.

CALIFORNIA PROPOSITION 65 Tetrafluoromethane is not on the California Proposition 65 lists

STATE REGULATORY INFORMATION: Tetrafluoromethane is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous

Substances: No.

California - Permissible Exposure Limits for Chemical Contaminants: No

Florida - Substance List: No Illinois - Toxic Substance List: No

Kansas - Section 302/313 List: No

Massachusetts - Substance List: No

Minnesota List Hazardous Substances: No.

Missouri - Employer Information/Toxic Substance List: No.

New Jersey - Right to Know Hazardous Substance List: Tetrafluoromethane North Dakota - List of Hazardous

Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: No.

Rhode Island - Hazardous Substance List: No

Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No.

Wisconsin Toxic and Hazardous Substances: No

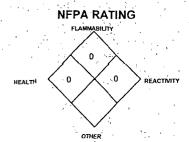
### OTHER U.S. FEDERAL REGULATIONS.

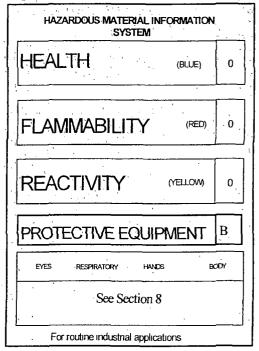
- Tetrafluoromethane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Tetrafluoromethane is not listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release Prevention.
- Tetrafluoromethane is not subject to the reporting requirements of Section 112(r) of the Clean Air Act
- Tetrafluoromethane is not listed in Appendix A as a highly hazardous chemical, per 29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals

OTHER CANADIAN REGULATIONS: Tetrafluoromethane is categorized as a Controlled Product, Hazard Class.A. as per the Controlled Product Regulations.

TETRAFLUOROMETHANE - CF4 MSDS

# **16. OTHER INFORMATION**





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

Further information about Tetrafluoromethane can be found in the following pamphlets published by Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres"

SB-2 "Oxygen Deficient Atmospheres"

AV-1 "Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

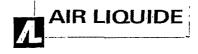
CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

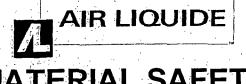
Fax on Demand:

1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

TETRAFLUOROMETHANE - CF4 MSDS



# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT AND COMPANY INFORMATION

CHEMICAL NAME; CLASS: HEXAFLUOROETHANE

SYNONYMS: Perfluoroethane; Fluorocarbon 116; Refrigerant 116; Propellant 116; Halon 116;

Freon 116; FC 116; F-116

CHEMICAL FAMILY NAME: Halogenated Aliphatic Hydrocarbon

FORMULA: C<sub>2</sub>F<sub>6</sub>

PRODUCT USE:

Document Number. 20089

Refrigerant; blowing agent; aerosol propellant

dielectric agent.

AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

HEXAFLUOROETHANE - C2F6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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### 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Hexafluoroethane is an odorless, colorless non-flammable, liquefied gas. Hexafluoroethane can cause central nervous system depression after inhalation exposures. Symptoms of such over-exposure can include drowsiness, fatigue, and weakness. At high concentrations, the gas can act as an asphyxiant, by displacing oxygen. Therefore, exposure to high concentrations of this gas can be fatal. Frostbite can be caused by contact with rapidly expanding gases or the liquefied gas. This gas is not flammable and not reactive in normal emergency response situations. However, if involved in a fire, this product can decompose to produce toxic gases (i.e. hydrogen fluoride, phosgene)

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE.** The most significant route of over-exposure for this gas is by inhalation.

Exposures to high concentrations of this gas may central nervous system depression and cause sensitization of the heart to adrenaline and nor-adrenaline. Effects of such over-exposure can include light-headedness, giddiness, shortness of breath and in extreme cases, irregular heartbeats, cardiac arrest, and death.

Deliberate abuse of Hexafluoroethane by aerosol "sniffing" and use or misuse of brochiodilator aerosols have resulted in death. The cause of death is usually related to irregular heartbeat leading to cardiac arrest. These effects have not been reported in the workplace.

High concentrations of this gas can also cause an oxygen-deficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of overexposure, death may occur. The following effects associated with various levels of oxygen are as follows:

### CONCENTRATION SYMPTOM OF EXPOSURE

12-16% Oxygen. Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen. Emotional upset, abnormal fatigue, disturbed respiration. 6-10% Oxygen: Nausea and vomiting, collapse or loss of consciousness.

Below 6% Convulsive movements, possible respiratory collapse, and death.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms** Over-exposure to may cause the following health effects:

ACUTE The most significant hazard associated with this product is inhalation of high concentrations of Hexafluoroethane. Such over-exposure can cause central nervous system depression and can cause oxygen deficiency. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color. Contact with the liquid or rapidly expanding gases can cause frostbite.

CHRONIC: Chronic over-exposures may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath, alteration in the electrical activity of the heart with irregular pulse, palpitations or inadequate circulation. Chronic exposure has also lead to temporary reduced fertility in both men and women. All these symptoms were relieved upon cessation of the exposure.

TARGET ORGANS Respiratory system, central nervous system.

# 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %		IMITS IN AIR					
			ACGIH		OSHA				
			TLV	STEL	PEL	STEL	IDLH	OTHER	
<u> </u>			ppm	ppm	ppm	Ppm	ppm		
Hexafluoroethane	76-16-4	100	There are no specific exposure limits for Hexafluoroethane Hexafluoroethane is an asphyxiant Oxygen levels should be maintained above 19 5%						

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI 2400 1-2004 format

HEXAFLUOROETHANE - C2F6 MSDS

### 4 FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus should be worn.

Remove victim(s) to fresh air, as quickly as possible. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Only trained personnel should administer supplemental oxygen.

SKIN EXPOSURE: Contact with the liquid or rapidly expanding gases can cause frostbite. In the event of frostbite, medical attention must be sought. Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

EYE EXPOSURE If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes <u>Minimum</u> flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary copy of label and MSDS to physician or other health professional with victim(s)

### 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

**AUTOIGNITION TEMPERATURE:** Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable. Upper (UEL): Not applicable

FIRE EXTINGUISHING MATERIALS:

Non-flammable, inert gas Use extinguishing media appropriate for

surrounding fire

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: When involved in a fire, this material may decompose and produce toxic gases (hydrogen fluoride, and carbonyl fluoride). Hexafluoroethane does not burn; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge Not sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE** Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

Minimum Personal Protective Equipment should be **Level B: Self-Contained Breathing Apparatus.** Locate and seal the source of the leaking gas Colorimetric tubes are available to detect the presence of Hexafluoroethane. Readings should be below levels listed in Section 2 (Composition and Information on Ingredients) and the area should be monitored for oxygen levels. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

If leaking incidentally from the cylinder or its valve, contact your supplier

HEXAFLUOROETHANE - C2F6 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

PAGE 3 OF 8

### 7. HANDLING AND STORAGE

\*WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, exposures to fatal concentrations of this product could occur without any significant warning symptoms, due to oxygen deficiency.

STORAGE AND HANDLING PRACTICES. Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits.

Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Use only storage containers and equipment (pipes, valves, fittings to relieve pressure, etc.) designed for the temperatures and pressures for the use and storage of Liquid Hexafluoroethane

Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders.

Keep the smallest amount necessary on-site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS**: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gashandling fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

**After Use:** Close main cylinder valve. Valves should be closed tightly Replace valve protection cap. Mark empty cylinders "EMPTY".

**NOTE:** Use only DOT or ASME code containers designed for gas storage Close valve after each use and when empty.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, <u>DO NOT</u> USE ADAPTERS:

THREADED: 0-3000 psig - CGA 660

0 - 500 psig - CGA 165 (limited standard) 0 - 500 psig - CGA 182 (limited standard) 0-3000 psig - CGA 320 (limited standard)

PIN-INDEXED YOKE. Not Applicable.

ULTRA HIGH INTEGRITY. 71

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

HEXAFLUOROETHANE - C2F6 MSDS

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS. Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen.

**RESPIRATORY PROTECTION:** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

**EYE PROTECTION**: Splash goggles or safety glasses Face-shields should be worn if contact with the liquefied gas is anticipated:

HAND PROTECTION: Wear leather gloves or glove protection appropriate to the specific operation for which this product is used.

**BODY PROTECTION**. Use body protection appropriate for task. Transfer of large quantities under pressure may require protective equipment appropriate to protect employees from splashes of liquefied product. Safety shoes are recommended when handling cylinders.

### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 23.9°C (75°F) air = 1: 0.358 lb/ft<sup>3</sup> (5.734 kg/m<sup>3</sup>)

**BOILING POINT @ 1 atm: -78.2°C (-108.8°F)** 

FREEZING/MELTING POINT @ 1 atm: -100.6°C (-149.1°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 5 545

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE (nBuAc = 1): Not applicable

ODOR THRESHOLD. Not applicable.

VAPOR PRESSURE @ 21.1°C (70°F): 445

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable

APPEARANCE AND COLOR: Colorless, odorless, non-flammable gas

**HOW TO DETECT THIS SUBSTANCE (warning properties):** There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

STABILITY Normally stable

**DECOMPOSITION PRODUCTS**: If product is exposed to fire, it may decompose yielding toxic products (i.e. hydrogen fluoride, carbonyl fluoride).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: The following materials are not compatible with this product polystyrene, alkaline and alkaline earth metals (such as sodium, potassium, lithium, banum, and magnesium, powdered aluminum). Metals such as silver, brass, bonze and copper may enhance the decomposition of this product at elevated temperatures. This product may also decompose in the presence of moisture and alloys which contain more than 2% magnesium.

HAZARDOUS POLYMERIZATION. Will not occur.

**CONDITIONS TO AVOID:** Avoid contact with incompatible materials and avoid exposing cylinders to extremely high temperatures, which could cause the cylinders to rupture or burst.

EFFECTIVE DATE: AUGUST 31, 2005

pH. Not applicable.

MOLECULAR WEIGHT: 138 012 EXPANSION.RATIO: Not applicable.

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 28

### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** No specific toxicology data are available for this product. Hexafluoroethane is an asphyxiant. Oxygen levels should be maintained above 19.5%.

SUSPECTED CANCER AGENT: Hexafluoroethane is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT** Hexafluoroethane is not imitating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION OF PRODUCT: Hexafluoroethane is not known to cause sensitization in humans.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects Hexafluoroethane on the human reproductive system

Mutagenicity: No mutagenicity effects on humans have been described for Hexafluoroethane.

Embryotoxcity. No embryotoxic effects have been described for Hexafluoroethane

Teratogenicity. No teratogenicity effects on humans have been described for Hexafluoroethane.

Reproductive Toxicity No reproductive toxicity effects on humans have been described for Hexafluoroethane.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE** Pre-existing respiratory conditions and cardio-vascular conditions may be aggravated by over-exposure to Hexafluoroethane.

**RECOMMENDATIONS TO PHYSICIANS** Treat symptoms and reduce over-exposure. Note Epinephrine increases the toxicity of Hexafluoroethane on the heart.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Hexafluoroethane.

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas

**EFFECT OF MATERIAL ON PLANTS or ANIMALS**: Any adverse effect on animals would be related to adverse effects on the cardiovascular system and to exposure to oxygen deficient environments. The symptoms experienced by over-exposed animals would be similar to those described for exposed humans. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations: Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME

Hexafluoroethane

HAZARD CLASS NUMBER and DESCRIPTION

2.2 (Non-Flammable Gas)

UN IDENTIFICATION NUMBER

UN 2193

PACKING GROUP

Not applicable.

DOT LABEL(S) REQUIRED:

Non-Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996). 126

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# 14. TRANSPORTATION INFORMATION (Continued)

MARINE POLLUTANT Hexafluoroethane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

**SPECIAL SHIPPING INFORMATION:** Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE. Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS. THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Hexafluoroethane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA THRESHOLD PLANNING QUANTITY: Not applicable

TSCA INVENTORY STATUS: Hexafluoroethane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITIES (RQ): Not applicable

CALIFORNIA PROPOSITION 65 Hexafluoroethane is not on the California Proposition 65 lists

**STATE REGULATORY INFORMATION**. Hexafluoroethane is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: No

California - Permissible Exposure Limits for Chemical Contaminants: No

Florida - Substance List: No. Illinois - Toxic Substance List: No. Kansas - Section 302/313 List: No. Massachusetts - Substance List: No.

Minnesota - List of Hazardous Substances: No

Missouri - Employer Information/Toxic Substance List: No

New Jersey - Right to Know Hazardous Substance List: Hexafluoroethane.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No Pennsylvania - Hazardous Substance List: No.

Rhode Island - Hazardous Substance List: No.

Texas - Hazardous Substance List: No.
West Virginia - Hazardous Substance
List: No

Wisconsin - Toxic and Hazardous Substances: No

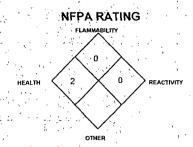
### OTHER U.S. FEDERAL REGULATIONS

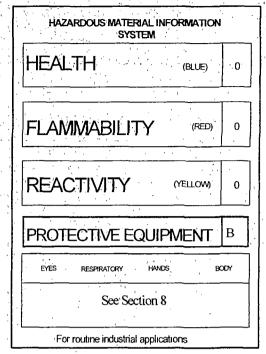
- Hexafluoroethane is not listed in Appendix A as a highly hazardous chemical, per 29 CFR 1910 119. Process Safety Management of Highly Hazardous Chemicals
- Hexafluoroethane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Hexafluoroethane is not listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release Prevention.

**OTHER CANADIAN REGULATIONS:** Hexafluoroethane is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

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### 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923. Telephone: (703) 788-2700

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres"

SB-2 "Oxygen Deficient Atmospheres"

AV-1 "Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand: 1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

HEXAFLUOROETHANE - C2F6 MSDS



# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT IDENTIFICATION

# CHEMICAL NAME; CLASS: TRIFLUOROMETHANE

SYNONYMS: Fluoroform; Carbon Trifluoride; Arcton; Fluoryl; Freon 23; Freon F-23;

Genetron-23; Halocarbon 23; Methyl Trifluoride; R-23;

CHEMICAL FAMILY NAME: Halogenated Aliphatic Hydrocarbon

FORMULA: CHF<sub>3</sub>

PRODUCT USE:

Document Number: 20167

Refrigerant gas; intermediate in organic

chemical synthesis.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

9101-LBJ-FREEWAY, SUITE-800

DALLAS,TX-75243

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-972-301-5200 Fax on Demand: 1-800/231-1366

## 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
			AC	ACGIH OSHA					
,			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	OTHER	
Tnfluoromethane	75-46-7	100	There are no specific exposure limits for Trifluoromethane Trifluoromethane is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.						

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used.

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI 2400 1-1993 format

TRIFLUOROMETHANE - CHF3 MSDS

EFFECTIVE DATE: January 1, 2005

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### 3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW. Trifluoromethane is a colorless, non-flammable, odorless, liquefied gas Trifluoromethane can affect the central nervous system after inhalation of high concentrations. Symptoms of such over-exposure can include drowsiness, dizziness, fatigue, and weakness. At high concentrations, the gas can act as an asphyxiant, by displacing oxygen. Therefore, exposure to high concentrations of this gas can be fatal. Frostbite can be caused by contact with rapidly expanding gases or the liquefied gas. This gas is not flammable and not reactive in normal emergency response situations. However, if involved in a fire, this product can decompose to produce toxic gases (i.e. hydrogen fluoride, carbon monoxide and carbon dioxide).

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas is by inhalation.

Exposures to high concentrations of this gas can act as a narcotic and may cause central nervous system depression and irritation of the nose, throat and upper respiratory system. Effects of such over-exposure can include light-headedness, giddiness, shortness of breath, and narcosis. Gross overexposure (>20%) can cause temporary alteration of the heart's electrical activity, with irregular pulse, palpitations or inadequate circulation.

High concentrations of this gas can also cause an oxygen-deficient environment. Individuals breathing such an atmosphere may expenence symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of overexposure, death may occur. The following effects associated with various levels of oxygen are as follows.

various levels of oxygen are as follows.								
CONCENTRATION	TRATION SYMPTOM OF EXPOSURE							
12-16% Oxygen	Breathing and pulse rate increased,							
	muscular coordination slightly disturbed							
10-14% Oxygen <sup>.</sup>	Emotional upset, abnormal fatigue,							
	disturbed respiration.							
6-10% Oxygen	Nausea and vomiting, collapse or loss							

of consciousness.

Below 6%. Convulsive movements, possible respiratory collapse, and death

OTHER POTENTIAL HEALTH EFFECTS Contact with rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact can quickly subside.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms**. Over-exposure to may cause the following health effects:

ACUTE The most significant hazard associated with this product is inhalation of high concentrations of Trifluoromethane. Such over-exposure can cause central nervous system depression. Symptoms of central nervous system depression include light-headedness, giddiness, shortness of breath, and narcosis. Inhalation of high concentrations can cause irregularities of the heart, possibly leading to death. Trifluoromethane can also cause oxygen deficiency. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

**CHRONIC** There are currently no confirmed adverse health effects on humans associated with chronic exposure to this compressed gas

TARGET ORGANS: Respiratory system, central nervous systems, and cardio-vascular system.

# 4 FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus should be worn.

HAZARDOUS MATERIAL INFORMATION SYSTEM HEALTH (BLUE) 0 FLAMMABILITY (RED) ٠0 REACTIVITY (METFOM)-0 PROTECTIVE EQUIPMENT EYES RESPIRATORY HANDS BODY See Section 8 For routine industrial applications

TRIFLUOROMETHANE - CHF3 MSDS

# 4 FIRST-AID MEASURES (Continued)

Remove victim(s) to fresh air, as quickly as possible. If not breathing, give artificial respiration. If breathing is difficult. give oxygen. Only trained personnel should administer supplemental oxygen.

SKIN EXPOSURE: Contact with the liquid or rapidly expanding gases can cause frostbite. In the event of frostbite, medical attention must be sought. Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

EYE EXPOSURE If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s)

### 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

**AUTOIGNITION TEMPERATURE.** Not applicable

FLAMMABLE LIMITS (in air by volume, %).

Lower (LEL): Not applicable. Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS. Non-flammable, inert gas. extinguishing media appropriate for surrounding fire

UNUSUAL FIRE AND EXPLOSION HAZARDS: When involved in a fire, this material may decompose and produce toxic gases (i.e. carbon dioxide, carbon monoxide, hydrogen fluoride). Because of the decomposition product of hydrogen fluoride, when involved in a fire, the fumes can be irritating and

pose a hazard to firefighters Trifluoromethane does not burn; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not sensitive Explosion Sensitivity to Static Discharge. Not sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

Minimum Personal Protective Equipment should be Level B: Self-Contained Breathing Apparatus. Locate and seal the source of the leaking gas. Colorimetric tubes are available to detect the presence of Trifluoromethane. Readings should be below levels listed in Section 2 (Composition and Information on Ingredients ) and the area should be monitored for oxygen levels. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

If leaking incidentally from the cylinder or its valve, contact your supplier.

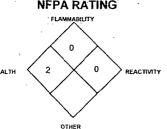
### 7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatique; exposures to fatal concentrations of this product could occur without any significant warning symptoms, due to oxygen deficiency.

STORAGE AND HANDLING PRACTICES. Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight

WORK PRACTICES AND HYGIENE PRACTICES (continued): Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits.

NFPA RATING



TRIFLUOROMETHANE - CHF3 MSDS

# 7. HANDLING and USE (Continued)

Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Use only storage containers and equipment (pipes, valves, fittings to relieve pressure, etc.) designed for the temperatures and pressures for the use and storage of Liquid Trifluoromethane.

Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders.

Keep the smallest amount necessary on-site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.

Before Use: Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gashanding fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY"

NOTE: Use only DOT or ASME code containers designed for gas storage. Close valve after each use and when empty

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, <u>DO NOT</u> USE ADAPTERS.

THREADED:

0-3000 PSI CGA 660

0-500 PSI: CGA 165 (Limited Standard)
0-500 PSI: CGA:182 (Limited Standard)
0-3000 PSI: CGA 320 (Limited Standard)

PIN-INDEXED YOKE ULTRA HIGH INTEGRITY:

Not applicable. Not applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS** Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen

**RESPIRATORY PROTECTION** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

**EYE PROTECTION** Splash goggles or safety glasses. Face-shields should be worn if contact with the liquefied gas is anticipated

HAND PROTECTION. Wear leather gloves or glove protection appropriate to the specific operation for which this product is used.

**BODY PROTECTION:** Use body protection appropriate for task. Transfer of large quantities under pressure may require protective equipment appropriate to protect employees from splashes of liquefied product. Safety shoes are recommended when handling cylinders

TRIFLUOROMETHANE - CHF3 MSDS

### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 25°C (77°F) and @ 101.325 kPa: 2.86 kg/m<sup>3</sup>

**BOILING POINT @ 101.325 kPa:** 8.9°C (48.1°F) **FREEZING/MELTING POINT:** -82 0°C (-115.6°F)

SPECIFIC GRAVITY: Not available

SOLUBILITY IN WATER % by weight @ 25°C (77°F): 0.95%

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD. Not applicable.

VAPOR PRESSURE @ 25°C (77°F): 686 psig

pH Not applicable

MOLECULAR WEIGHT: 70 014

EXPANSION RATIO Not applicable

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 5.5

COEFFICIENT WATER/OIL DISTRIBUTION @ 25°C (77°F): (Bunsen Coefficient) = 0.319

**APPEARANCE AND COLOR** Colorless, odorless, non-flammable gas. At high concentrations, this gas may have a sweetish odor

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

**STABILITY**. Normally stable. Trifluoromethane decomposes above 1150°C (2102°F). Trifluoromethane decomposes very slowly with water

**DECOMPOSITION PRODUCTS**: If product is exposed to fire, it may decompose yielding toxic products (i e hydrogen fluoride, carbon monoxide and carbon dioxide) The thermal decomposition products of Trifluoromethane are highly corrosive.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE. Trifluoromethane is incompatible with strong oxidizing agents such as oxygen. Trifluoromethane can also react with chemically active metals, such as, calcium, powdered aluminum, zinc, magnesium, beryllium, titanium, samarium, lithium and barium.

HAZARDOUS POLYMERIZATION Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible materials, temperatures above 1150°C (2102°F), moisture and avoid exposing cylinders to extremely high temperatures, which could cause the cylinders to rupture or burst

### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following information is available for Trifluoromethane.

Sex Chromosome Loss and Nondisjunction-Drosophila melanogaster-inhalation 98 pph/10 minutes  $LC_{50}$  (inhalation, rat) > 663,000 ppm, 4 hours

**SUSPECTED CANCER AGENT**. Trifluoromethane is not found on the following lists FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies

**IRRITANCY OF PRODUCT** Trifluoromethane is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue

**SENSITIZATION OF PRODUCT**: Trifluoromethane is not known to cause respiratory system or skin sensitization in humans

**REPRODUCTIVE TOXICITY INFORMATION**. Listed below is information concerning the effects Trifluoromethane on the human reproductive system.

<u>Mutagenicity</u> No human mutagenicity effects have been described for this Trifluoromethane. Mutation data is available for this gas; obtained during clinical studies involving fruit flies exposed to relatively high doses.

Embryotoxcity No embryotoxic effects have been described for this Trifluoromethane.

Teratogenicity No teratogenicity effects have been described for this Trifluoromethane

Reproductive Toxicity No reproductive toxicity effects have been described for Trifluoromethane.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process

TRIFLUOROMETHANE - CHF3 MSDS

### 11. TOXICOLOGICAL INFORMATION (Continued)

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE** Pre-existing respiratory conditions, central nervous and cardio-vascular conditions may be aggravated by over-exposure to this product.

**RECOMMENDATIONS TO PHYSICIANS**: Administer oxygen, treat symptoms and reduce over-exposure. Note: Epinephrine increases the toxicity of Trifluoromethane on the heart

**BIOLOGICAL EXPOSURE INDICES (BEIs)**: Currently, Biological Exposure Indices (BEIs) are not applicable for Trifluoromethane.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL STABILITY** The gas will-be dissipated rapidly in well-ventilated areas. Trifluoromethane is relatively stable in the environment.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS.** Any adverse effect on animals would be related to adverse effects on the cardiovascular system and to exposure to oxygen deficient environments. The symptoms experienced by over-exposed animals would be similar to those described for exposed humans. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on this product's effects on aquatic life.

### 13. DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL**: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide Do not dispose of locally

### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME Trifluoromethane

HAZARD CLASS NUMBER and DESCRIPTION. 2.2 (Non-Flammable Gas)

UN 1984
PACKING GROUP: UN 1984
Not applicable.

DOT LABEL(S) REQUIRED: Non-Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996). 126

MARINE POLLUTANT Trifluoromethane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR

172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious

safety hazards and should be discouraged.

NOTE Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of

Federal law (49 CFR, Part 173.301 (b)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS**: Trifluoromethane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA THRESHOLD PLANNING QUANTITY: Not applicable

TSCA INVENTORY STATUS: Trifluoromethane is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITIES (RQ). Not applicable.

CALIFORNIA PROPOSITION 65: Trifluoromethane is not on the California Proposition 65 lists

TRIFLUOROMETHANE - CHF3 MSDS

# 15. REGULATORY INFORMATION (Continued)

STATE REGULATORY INFORMATION: Trifluoromethane is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: No.

California - Permissible Exposure Limits for Chemical Contaminants: No

Florida - Substance List: No Illinois - Toxic Substance List: No Kansas - Section 302/313 List: No Massachusetts - Substance List: No Minnesota - List of Hazardous Substances: No.

Missouri - Employer Information/Toxic Substance List: Tnfluoromethane

New Jersey - Right to Know Hazardous Substance List: No.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List:

Rhode Island - Hazardous Substance List: No

Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No

Wisconsin - Toxic and Hazardous: No

### OTHER-U.S. FEDERAL REGULATIONS:

- Trifluoromethane is not subject to the requirements of CFR 29 1910.1000. Trifluoromethane is not listed on Table Z.1.
- Trifluoromethane is not subject to the reporting requirements of Section 112(r) of the Clean Air Act.
- Trifluoromethane is not listed in Appendix A as a highly hazardous chemical, per 29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals.
- Trifluoromethane is not a Class I or Class II ozone depleting chemical (40 CFR part 82)
- Trifluoromethane is not listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release Prevention

**OTHER CANADIAN REGULATIONS:** Trifluoromethane is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

### 16. OTHER INFORMATION

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923. Telephone: (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres"

SB-2 "Oxygen Deficient Atmospheres"

AV-1 "Safe Handling and Storage of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

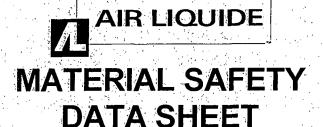
Fax on Demand:

1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

TRIFLUOROMETHANE - CHF3 MSDS



Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

### 1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS:

ETHYLENE

SYNONYMS: Acetene; Liquid Olefiant Gas Ethene, Elayl, Etherin, Bicarburated Hydrogen

CHEMICAL FAMILY NAME: Alkenes; Aliphatic Hydrocarbon

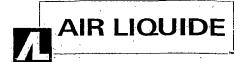
FORMULA: C2H4

PRODUCT USE:

Document Number: 20065

For fuel and synthetic chemical use, welding,

medical and agricultural uses.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand: 1-800/231-1366

# 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME.	CAS#	mole %	EXPOSURE LIMITS IN AIR						
	· '		ACGIH			OSHA		,	
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	OTHER	
Ethylene	74-85-1	> 99 5%	There are no specific exposure limits for Ethylene. Ethylene is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%						
Maximum Imp	ounties	< 0.5%	None of the trace impunities in this product contribute significantly to the hazards associated with the product. All hazard information pertinent to this product has been provided in this Material Safety Data Sheet, per the requirements of the OSHA Hazard Communication Standard (29 CFR 1910 1200) and State equivalents standards.						

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used.

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-1993 format.

ETHYLENE - C2H4 MSDS

**EFFECTIVE DATE: FEBRUARY 24, 2004** 

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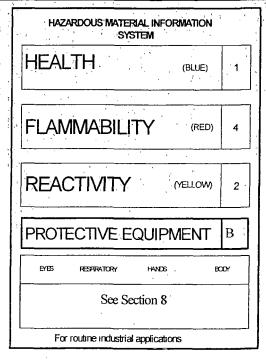
#### 3. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW.** Ethylene is a colorless, flammable gas with a slightly sweet odor. The gas poses a serious fire hazards when accidentally released. This gas acts as a simple asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. The gas may spread long distances. Distant ignition and flashback are possible. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to burst or rupture without activating the cylinder's relief devices. This product can undergo a violent chemical reaction at elevated temperatures. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE The most significant route of over-exposure for this product is by inhalation.

INHALATION: Exposure to very high concentrations of this product (20% or greater) can cause anesthetic effects. High concentrations of this gas can also cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of ethylene in air would be exceeded; possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of overexposure, death may occur. The following effects associated with various levels of oxygen are as follows.

various levels of oxygen a	are as follows.
CONCENTRATION	SYMPTOM OF EXPOSURE
12-16% Oxygen	Breathing and pulse rate increased, muscular coordination slightly disturbed
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea and vomiting, collapse or loss of consciousness.
Below 6%.	Convulsive movements, possible respiratory collapse, and death



**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms.** Over-exposure to Ethylene may cause the following health effects.

**ACUTE**: The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to this compressed gas

TARGET ORGANS: Respiratory system, CNS system

## 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Only trained personnel should administer supplemental oxygen.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

ETHYLENE - C2H4 MSDS

**EFFECTIVE DATE: FEBRUARY 24, 2004** 

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#### 5. FIRE-FIGHTING MEASURES

FLASH POINT Not applicable; flammable gas.

**AUTOIGNITION TEMPERATURE:** 490 °C (914 °F)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL) 2.7% Upper (UEL) 36.0%

FIRE EXTINGUISHING MATERIALS: Extinguish Ethylene fires by shuttingoff the source of the gas Use water spray or a foam agent to cool fireexposed containers, structures, and equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide

and carbon dioxide. An extreme explosion hazard exists in areas in which the gas has been released, but the material has not yet ignited

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder For massive fires in large areas, use unmanned hose holder or monitor nozzles, if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Static discharge may cause this product to ignite explosively, if released.

**SPECIAL FIRE-FIGHTING PROCEDURES**. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. If water is not available for cooling or protection of vessel exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for pre-planning can be found in the American Petroleum Institute Publications 2510 and 2510A

#### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE** Evacuate immediate area Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used In case of a spill, clear the affected area, protect people, and respond with trained personnel. Adequate fire protection must be provided.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (2.7%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

# 7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

ETHYLENE - C2H4 MSDS

**EFFECTIVE DATE: FEBRUARY 24, 2004** 

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**NFPA RATING** 

HEALTH

REACTIVITY

# 7. HANDLING and USE (Continued)

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity).

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i e sprinkler system, portable fire extinguishers)

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders.

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS**: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve Valves should be closed tightly. Replace valve protection cap Mark empty cylinders "EMPTY".

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with this product. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, <u>DO NOT USE ADAPTERS</u>:

THREADED:

0-3000 PSIG CGA 350

PIN-INDEXED YOKE

CGA 900

ULTRA HIGH INTEGRITY:

Not applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**. Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Ethylene does not reach its lower flammability limit of 2.7%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

**RESPIRATORY PROTECTION:** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

**EYE PROTECTION**: Safety glasses.

**HAND PROTECTION** Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used.

ETHYLENE - C2H4 MSDS

**EFFECTIVE DATE: FEBRUARY 24, 2004** 

# 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

**BODY PROTECTION**. Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

#### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 0°C (32°F) and 1 atm: 0.0787 lb/ft<sup>3</sup> (1.261 kg/m<sup>3</sup>)

BOILING POINT @ 1 atm: -155 °F,-103.7°C

FREEZING/MELTING POINT @ 1 atm: -272.9°F, -169 4 °C

SPECIFIC GRAVITY @ 0°C (32°F) and 1 atm (air = 1): 0 978 ...... pH Not applicable.

SOLUBILITY IN WATER voi/vol @ 0°C (32°F): 0 26

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD: 700 mg/m<sup>3</sup> (detection)

VAPOR PRESSURE @ 21.1°C (70°F) psig Not applicable

**COEFFICIENT WATER/OIL DISTRIBUTION**. Not applicable

APPEARANCE AND COLOR Colorless gas with a sweet odor.

**HOW TO DETECT THIS SUBSTANCE (warning properties):** The sweet odor can be a good warning indication that a release of this product is occurring. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

#### 10. STABILITY and REACTIVITY

**STABILITY**: Stable at standard temperatures and pressures. At high temperatures and pressures, this product can polymerize.

**DECOMPOSITION PRODUCTS**: When ignited in the presence of oxygen, this gas will decompose to produce carbon monoxide and carbon dioxide

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Ethylene may react violently with the following materials. Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride); aluminum chloride, organic peroxides, nitrogen dioxide, and ozone. Can react violently with carbon tetrachloride, chlorine, mercury oxide, silver oxide, and copper at high temperatures.

HAZARDOUS POLYMERIZATION: May occur at elevated temperatures

**CONDITIONS TO AVOID**. Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

# 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**: Dogs exposed to 1.4% ethylene were anesthetized in 2-8.2 minutes Additional information is as follows

LC50 (inhalation, mouse) = 96 pph

LCLo (inhalation, mammal) = 950000 ppm for 5 minutes

**SUSPECTED CANCER AGENT** Ethylene is not found on the following lists. FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies Ethylene is listed as an IARC Group 3 Compound (Not Classifiable in terms of Human Carcinogenicity)

**IRRITANCY OF PRODUCT**. Ethylene is not irritating, however, contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION TO THE PRODUCT: Ethylene is not known to cause sensitization in humans

**REPRODUCTIVE TOXICITY INFORMATION.** Listed below is information concerning the effects of Ethylene on the human reproductive system

<u>Mutagenicity</u>: No mutagenicity effects have been described for Ethylene

Embryotoxcity No embryotoxic effects have been described for Ethylene.

<u>Teratogenicity</u> No teratogenicity effects have been described for Ethylene.

Reproductive Toxicity: No reproductive toxicity effects have been described for Ethylene.

ETHYLENE - C2H4 MSDS

**EFFECTIVE DATE: FEBRUARY 24, 2004** 

**MOLECULAR WEIGHT: 28 05** 

**EXPANSION RATIO** Not applicable

SPECIFIC VOLUME (ft<sup>3</sup>/lb) 12.7

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# 11. TOXICOLOGICAL INFORMATION (Continued)

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Acute or chronic respiratory conditions may be aggravated by over-exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary, treat symptoms; reduce or eliminate

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Ethylene

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL STABILITY** This gas will be dissipated rapidly in well-ventilated areas. Additional environmental data for Ethylene are available as follows

Water Solubility = 1 vol./4 vol at 0EC and 1 vol./9 vol at 25EC Ethylene in excess of 0.5 ppm in air may injure crops over a 24 hour exposure period Ethylene does not bioaccumulate. Ethylene is not expected to be harmful to aquatic life

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to oxygen deficient environments, as a well as respiratory system damage. An excess of 0.5 ppm of Ethylene, in the air may injure crops over a 24-hour exposure period Refer to Section 11 (Toxicological Information) for data on the specific effects of this Ethylene on test animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: The following data are currently available for Ethylene in aquatic environments.

Log Kow = 1 13, ethylene does not bioconcentrate in aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide Do not dispose of locally.

# 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME

Ethylene, compressed

HAZARD CLASS NUMBER and DESCRIPTION 2.1 (Flammable Gas)

**UN IDENTIFICATION NUMBER** 

UN 1962

PACKING GROUP.

Not applicable.

DOT LABEL(S) REQUIRED

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 116P

MARINE POLLUTANT: Ethylene is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172 101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments

#### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS Ethylene is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows

COMPOUND	SARA 302	SARA 304	SARA 313
Ethylene	NO	NO	YES

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# 15. REGULATORY INFORMATION (Continued)

SARA THRESHOLD PLANNING QUANTITY. Not applicable

TSCA INVENTORY STATUS: Ethylene is listed on the TSCA inventory.

CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

#### OTHER U.S. FEDERAL REGULATIONS:

• Ethylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.

Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Ethylene is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel.

Ethylene does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)

 Ethylene is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance. The threshold quantity for Ethylene under this regulation is 10,000 lbs

**OTHER CANADIAN REGULATIONS:** Ethylene is categorized as a Controlled Product, Hazard Classes A, and B1, as per the Controlled Product Regulations

STATE REGULATORY INFORMATION: Ethylene is covered under specific State regulations, as denoted below.

Alaska - Designated Toxic and Hazardous Substances: Ethylene

California - Permissible Exposure Limits for Chemical Contaminants: Ethylene. Florida - Substance List: Ethylene Illinois - Toxic Substance List: Ethylene

Florida - Substance List: Ethylene Illinois - Toxic Substance List: Ethylene Kansas - Section 302/313 List: Ethylene Massachusetts - Substance List: Ethylene. **Minnesota - List of Hazardous Substances:** Ethylene

Missouri - Employer Information/Toxic Substance List: Ethylene

New Jersey - Right to Know Hazardous Substance List: Ethylene

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Ethylene

Rhode Island - Hazardous Substance List: Ethylene

Texas - Hazardous Substance List: No West Vırginia - Hazardous Substance List:

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65: Ethylene is not on the California Proposition 65 lists.

## 16. OTHER INFORMATION

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

AV-1 "Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

Fax on Demand:

1-800/231-1366

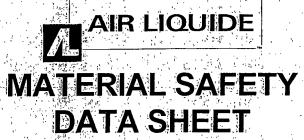


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

ETHYLENE - C2H4 MSDS

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Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

# 1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: PROPYLENE

SYNONYMS: Methylethene, Methylethylene, Propene

CHEMICAL FAMILY: Unsaturated aliphatic hydrocarbon / alkene

FORMULA: C<sub>3</sub>H<sub>6</sub>

PRODUCT USE:

Document Number: 20146

For fuel and synthetic chemical use; food additive, agricultural uses, aerosol propellant,

refrigerant.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information: 1-713/896-2896

Fax on Demand:

1-800/231-1366

## 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR					
	Ì		ACGI	+	OSHA			
			TLV ppm	STEL ppm	PEL ppm	STEL Ppm	IDLH ppm	OTHER
Propylene	115-07-1	> 99 %	A4 There are no specific exposure limits for Propylene. Propylene simple asphyxiant (SA) Oxygen levels should be maintained at 19 5%.  Carcinogen)					
Maximum Impo	unties	< 10%	None of the trace impunties in this product contribute significantly to the hazards associal with the product. All hazard information pertinent to this product has been provided in the Material Safety Data Sheet, per the requirements of the OSHA Hazard Communicates Standard (29 CFR 1910 1200) and State equivalents standards.					

NE = Not Established

C = Ceiling Limit

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-1993 format.

PROPYLENE - C<sub>3</sub>H<sub>6</sub> MSDS

**EFFECTIVE DATE: JANUARY 18, 2004** 

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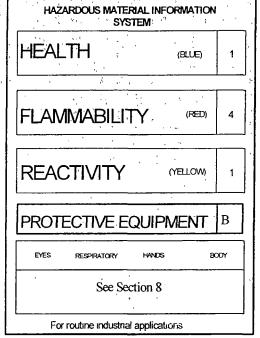
#### 3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW. This product is a colorless, liquefied, flammable gas with a mild odor. Both the liquid and gas pose a serious fire hazard when accidentally released. The gas is heavier than air, and may spread long distances. Distant ignition and flashback are possible. Rapid evaporation of liquid from cylinder may cause frostbite. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to burst or rupture without activating the cylinder is relief devices. Propylene is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Propylene may undergo polymenzation at elevated temperatures and pressures, under certain circumstances. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE The most significant route of over-exposure for this product is by inhalation.

INHALATION. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Propylene in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows.

	various levels of oxygen are as follows.
CONCENTRATION	SYMPTOM OF EXPOSURE
12-16% Oxygen	Breathing and pulse rate increased,
	muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue,
	disturbed respiration.
6-10% Oxygen:	Nausea and vomiting, collapse or loss
A Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of	of consciousness.
Below 6%:	Convulsive movements, possible



OTHER POTENTIAL HEALTH EFFECTS: Contact with liquid or

respiratory collapse, and death.

rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after such contact can quickly subside.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms** Over-exposure to this gas mixture may cause the following health effects:

ACUTE: The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color

CHRONIC. There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas.

TARGET ORGANS: Respiratory system

#### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant clothing should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary

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# 4. FIRST-AID MEASURES (Continued)

SKIN EXPOSURE: Exposure to the liquefied gas can cause frostbite: Remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath, which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER NEVER USE DRY HEAT. If area of frostbite is extensive, and if possible, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers of hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention.

Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

EYE EXPOSURE of liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

# 5. FIRE-FIGHTING MEASURES

FLASH POINT. Not applicable

**AUTOIGNITION TEMPERATURE: 455°C (851°F)** 

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 2 0%, Upper (UEL): 11.0%

FIRE EXTINGUISHING MATERIALS: Extinguish Propylene fires by shutting-off the source of the gas. Use water spray to cool fire-exposed containers, structures, and equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When involved in a fire,

this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide. Propylene may undergo polymerization at elevated temperatures and pressures, under certain circumstances.

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge. Static discharge may cause this product to ignite explosively, if released.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for preplanning can be found in the American Petroleum Institute Publications 2510 and 2510A.

#### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

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**NFPA RATING** 

REACTIVITY

# 6. ACCIDENTAL RELEASE MEASURES (Continued)

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (2 0%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

#### 7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES. Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Specific requirements are listed in NFPA 58. Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barner of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity).

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS. Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve.

Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

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# 7. HANDLING and USE (Continued)

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage Earth-ground and bond all lines and equipment associated with this product. Close valve after each use and when empty

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS:

THREADED: 0-500 PSIG - CGA 510
PIN-INDEXED YOKE: Not Applicable.
ULTRA HIGH INTEGRITY: Not Applicable

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS.** Use with adequate ventilation Provide natural or explosion-proof ventilation adequate to ensure Propylene does not reach its lower flammability limit of 2 0%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

RESPIRATORY PROTECTION: Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910 134), or equivalent State standards.

EYE PROTECTION Safety glasses.

**HAND PROTECTION**. Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used. Use low-temperature protective gloves when working with containers of Liquid Propylene.

**BODY PROTECTION**: Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

#### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.110 447 lb/ft3 (1.7692 kg/m3)

**BOILING POINT**. -47 72°C (-53.90°F)

ODOR THRESHOLD 30 mg/m<sup>3</sup>

FREEZING/MELTING POINT @ 10 psig: -185°C (-301.4°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 1 4529 pH: Not applicable.

SOLUBILITY IN WATER vol/vol @ 37.8°C (100°F): 0 009MOLECULAR WEIGHT: 42.081

EVADODATION DATE (nDuA = 4), Not employed

EVAPORATION RATE (nBuAc = 1): Not applicable.

**EXPANSION RATIO** Not applicable

SPECIFIC VOLUME (ft3/lb) 9.1

VAPOR PRESSURE @ 21.1°C (70°F) psig: 132.81

COEFFICIENT WATER/OIL DISTRIBUTION Not applicable.

APPEARANCE AND COLOR: Colorless gas with a mild odor. The liquid is also colorless, and will have a faint odor.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation

#### 10. STABILITY and REACTIVITY

STABILITY Stable

**DECOMPOSITION PRODUCTS:** When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide

PROPYLENE - C<sub>3</sub>H<sub>6</sub> MSDS

**EFFECTIVE DATE: JANUARY 18, 2004** 

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# 10. STABILITY and REACTIVITY (Continued)

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen diffuoride, and nitrogen trifluoride).

**HAZARDOUS POLYMERIZATION:** Propylene may undergo polymerization at elevated temperatures and pressures, under certain circumstances.

**CONDITIONS TO AVOID:** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

#### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**: The following information is for Propylene

Effects on Short-Term Inhalation: In all species tested, propylene is an anesthetic, being approximately twice as toxic as ethylene. A concentration of 40% produced light anesthesia in rats, with no toxic effects within 6 hours of exposure. Exposure to 55% for 3 to 6 minutes, 65% for 2 to 5 minutes, and 70% for 1 to three minutes caused deep anesthesia with no central nervous system disturbances. In cats, no toxic signs were observed when anesthesia was induced with propylene concentrations of 20-30%. However, at higher concentrations, toxic effects were seen. Some subtle effects were seen from 40-50%, a drop in blood pressure and increased pulse rate at 70%, and an unusual heart beat from 50-80%. Propylene has been found to be a cardiac sensitizer in dogs. After 4 hours of inhalation exposure to 50,000 ppm propylene, rats pretreated with Aroclor 1254 (a hepatic mixed-function, oxidase inducer) showed liver toxicity. No liver toxicity was observed in control rats or rats pretreated with phenolbarbital or beta-naphthoflavone. This evidence suggests that Aroclor pre-treatment is a prerequisite for propylene liver toxicity.

Effects of Long-Term Inhalation: Chronic exposure to mice to concentrations causing central nervous system depression resulted in moderate to very slight fatty degeneration of the liver

SUSPECTED CANCER AGENT. Propylene is not found on the following lists FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA; therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies

**SENSITIZATION TO THE PRODUCT**. Propylene is considered a weak cardiac sensitizer based on experimental data with animals.

**IRRITANCY OF PRODUCT** This product is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue

**REPRODUCTIVE TOXICITY INFORMATION** Listed below is information concerning the effects of Propylene on the human reproductive system.

Mutagenicity. No mutagenicity effects have been described for Propylene.

Embryotoxcity: No embryotoxic effects have been described for Propylene

Teratogenicity No teratogenicity effects have been described for Propylene.

Reproductive Toxicity: No reproductive toxicity effects have been described for Propylene.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to Propylene

**BIOLOGICAL EXPOSURE INDICES (BEIs)**. Currently, Biological Exposure Indices (BEIs) are not applicable for Propylene.

**RECOMMENDATIONS TO PHYSICIANS**: Administer oxygen, if necessary; treat symptoms; reduce or eliminate exposure.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS**. Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life

EFFECT OF CHEMICAL ON AQUATIC LIFE No evidence is currently available on this product's effects on aquatic life

PROPYLENE - C3H6 MSDS

#### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide Do not dispose of locally.

#### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

ALTERNATE DESCRIPTION:

PROPER SHIPPING NAME:

Propylene

Petroleum gases, liquefied

HAZARD CLASS NUMBER and DESCRIPTION: 2.1 (Flammable Gas)

UN 1077

2.1 (Flammable Gas)

UN IDENTIFICATION NUMBER: PACKING GROUP:

Not applicable.

UN 1075--Not applicable.

DOT LABEL(S) REQUIRED:

Flammable Gas

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT. Propylene is not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

## 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS. Propylene is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

CHEMICAL NAME	SARA 302	SARA 304	SARA 313	
	-			
Propylene	No	No	Yes	

SARA Threshold Planning Quantity: Not applicable.

TSCA INVENTORY STATUS. Propylene is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

#### OTHER U.S. FEDERAL REGULATIONS

- Propylene does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Propylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for of this gas is 10,000 pounds.
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Propylene is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a
- Propylene is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Release Prevention as a flammable substance (threshold quantity under this regulation is 10,000 lbs

OTHER CANADIAN REGULATIONS: Propylene is categorized as a Controlled Product, Hazard Classes A, and B1 as per the Controlled Product Regulations

STATE REGULATORY INFORMATION: Propylene is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Propylene

California - Permissible Exposure Limits for Chemical Contaminants: Propylene Florida - Substance List: Propylene.

Illinois - Toxic Substance List: Propylene Kansas - Section 302/313 List: Propylene Massachusetts Propylene

Substance

of Hazardous

Minnesota List Substances: Propylene

Missouri - Employer Information/Toxic Substance List: Propylene New Jersey - Right to Know Hazardous

Substance List: Propylene North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Propylene

Rhode Island - Hazardous Substance List: Propylene

Texas - Hazardous Substance List: No. West Virginia - Hazardous Substance List: No.

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65 Propylene is not on the California Proposition 65 lists.

PROPYLENE - C3H6 MSDS

**EFFECTIVE DATE: JANUARY 18, 2004** 

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#### 16. OTHER INFORMATION

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone. (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

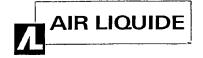
SB-2 "Oxygen Deficient Atmospheres"

"Handbook of Compressed Gases"

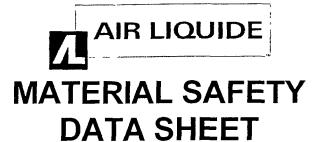
PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

Fax on Demand: 1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition



Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

# 1. PRODUCT AND COMPANY INFORMATION

CHEMICAL NAME; CLASS: PROPANE

SYNONYMS: Dimethylmethane, LP-Gas, Liquefied Petroleum Gas (LPG)

CHEMICAL FAMILY: Alkane (hydrocarbon)

FORMULA: C<sub>3</sub>H<sub>8</sub>

PRODUCT USE:

Document Number 10076

For fuel and synthetic chemical use; food additive, agricultural uses, aerosol propellant,

refrigerant



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive

Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE.** 

General MSDS Information: 1-713/896-2896

Fax on Demand:

1-800/231-1366

PROPANE - (C3H8) MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

PAGE 1 OF 9

#### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW** Propane is a colorless, liquefied, flammable gas with a natural gas odor, which rapidly turns into a gas at standard atmospheric temperature and pressure. Both the liquid and gas pose a senous fire hazard when accidentally released. The gas is heavier than air, and may spread long distances. Distant ignition and flashback are possible. Rapid evaporation of liquid from cylinder may cause frostbite. Flame or high temperature impinging on a localized area of the cylinder of Propane can cause the cylinder to burst or rupture without activating the cylinder's relief devices. Propane is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Provide adequate fire protection during emergency response situations.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE** The most significant route of over-exposure for Propane is by inhalation

**INHALATION** At high concentrations, Propane can act as a narcotic High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of propane in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION

SYMPTOM OF EXPOSURE

12-16% Oxygen

Breathing and pulse rate increased, muscular coordination slightly disturbed

10-14% Oxygen.

Emotional upset, abnormal fatigue, disturbed respiration Nausea and vomiting, collapse or loss of consciousness

6-10% Oxygen. Below 6%:

Convulsive movements, possible respiratory collapse, and death.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms** Over-exposure to this gas mixture may cause the following health effects:

**ACUTE**: The most significant hazard associated with Propane is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas.

TARGET ORGANS: Respiratory system.

PROPANE - (C3H8) MSDS

## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR						
			ACGIH		OSHA				
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	OTHER	
Propane	74-98-6	> 96%	Simple Asphyxiant	NE	1000	NE	2100	NIOSH REL 1000 ppm DFG MAK 1000 ppm	
Maximum Imp		< 4 0%	None of the trace impunties in Propane contribute significantly to the hazards ass with the product. All hazard information pertinent to Propane has been provided Material Safety Data Sheet, per the requirements of the OSHA Hazard Commu Standard (29 CFR 1910 1200) and State equivalents standards					has been provided in this HA Hazard Communication	

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format

#### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO PROPANE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary

SKIN EXPOSURE: Remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER NEVER USE DRY HEAT If area of frostbite is extensive, and if possible, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention

Frozen tissue is painless and appears waxy, with a possible yellow color Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

**EYE EXPOSURE**. If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids Have victim "roll" eyes <u>Minimum</u> flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT, (Closed Cup): -104°C (-156°F)
AUTOIGNITION TEMPERATURE: 450°C (842°F)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL). Upper (UEL):

2.2% 9.5%

**FIRE EXTINGUISHING MATERIALS** Extinguish Propane fires by shutting-off the source of the gas Use water spray to cool fire-exposed containers, structures, and equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS.** When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide. Propane is heavier than air and vapors can travel long distances to an ignition source and flashback.

PROPANE - (C3H8) MSDS

# 5. FIRE-FIGHTING MEASURES (Continued)

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of Propane can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn

Explosion Sensitivity to Mechanical Impact. Not sensitive.

Explosion Sensitivity to Static Discharge Static discharge may cause Propane to ignite explosively, if released

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. The best fire-fighting technique may be simply to let the burning gas escape. Stop the leak before extinguishing the fire. If the fire is extinguished before the fire is stopped, and because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for pre-planning can be found in the American Petroleum Institute Publications 2510 and 2510A

# 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE** Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate Combustible gas concentration must be below 10% of the LEL (2.2%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

## 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, exposures to fatal concentrations of Propane could occur without any significant warning symptoms. Non-sparking tools should be used

STORAGE AND HANDLING PRACTICES: Specific requirements are listed in NFPA 58. Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barner of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time

PROPANE - (C3H8) MSDS

# 7. HANDLING AND STORAGE (Continued)

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS.** Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly Replace valve protection cap. Mark empty cylinders "EMPTY"

**NOTE**: Use only DOT or ASME code containers designed for flammable gas storage Earth-ground and bond all lines and equipment associated with Propane Close valve after each use and when empty

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS:

THREADED:

For Gas Withdrawal - CGA 510

For Liquid Withdrawal - CGA 555

<u>PIN-INDEXED YOKE</u> Not Applicable. <u>ULTRA HIGH INTEGRITY</u>: Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**. Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Propane does not reach its lower flammability limit of 2.2% Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

**RESPIRATORY PROTECTION** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of Propane. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

EYE PROTECTION: Safety glasses, faceshield when handling the liquefied product.

**HAND PROTECTION**: Wear leather gloves when handling cylinders of Propane. Otherwise, wear glove protection appropriate to the specific operation for which Propane is used. Use low-temperature protective gloves when working with containers of Liquid Propane.

**BODY PROTECTION** Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing

PROPANE - (C3H8) MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.115 99 lb/ft3 (1 868 kg/m3)

BOILING POINT -42°C (-43.7°F)

FREEZING/MELTING POINT @ 10 psig: -187.70°C; -305.9°F

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 1.5223 pH Not applicable

SOLUBILITY IN WATER vol/vol at 37.8°C (100°F): 0 065 MOLECULAR WEIGHT: 44.097

EVAPORATION RATE (nBuAc = 1): Not applicable

**EXPANSION RATIO** Not applicable.

ODOR THRESHOLD. 1800 mg/m<sup>3</sup> SPECIFIC VOLUME (ft<sup>3</sup>/lb): 8.7

VAPOR PRESSURE @ 21.1°C (70°F) psig 109 73

**COEFFICIENT WATER/OIL DISTRIBUTION:** Not applicable

APPEARANCE AND COLOR. Colorless gas or liquid. Propane has a faint odor at high concentrations

**HOW TO DETECT THIS SUBSTANCE (warning properties):** The natural gas odor may be a warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

## 10. STABILITY and REACTIVITY

STABILITY. Stable.

**DECOMPOSITION PRODUCTS:** When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE**: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride)

HAZARDOUS POLYMERIZATION Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst

#### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA. The following information is for pure Propane

Skin Contact (Rabbit): Several formulations containing an isobutane-propane mixture have been tested for skin irritation effects. All formulations contained less than 13% propane. All of the formulations containing propane caused only mild irritation.

Effects on Short-Term Inhalation: Guinea-pigs breathing 5.5% propane by volume developed tremors after 5 minutes. Nausea, retching, and stupefaction were observed, when animals were exposed for 30-120 minutes. All the animals survived a two-hour exposure and had no significant tissue damage. A gas concentration of 89% did not cause anesthesia, but depressed the blood pressure of cats. Inhalation of 10 percent propane by mice and 15% by dogs caused weak cardiac sensitization, Presumably, all of these effects are reversible when exposure ceases. In primates, 10% propane caused some change in heart function. At 20% there was aggravation of these symptoms and respiratory depression.

Effects of Long-Term Inhalation: No toxicity or abnormalities were observed when monkeys were exposed to approximately 750 ppm for 90 days. Similar results were obtained when monkeys were exposed to an aerosol spray containing 65% propane and isobutane.

**SUSPECTED CANCER AGENT** Propane is not found on the following lists. FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**: Propane is not irritating, however, contact with rapidly expanding gases can cause frostbite to exposed tissue.

**SENSITIZATION TO THE PRODUCT**: Propane is not known to cause sensitization in humans; however, some animals studies indicate that exposure to Propane can cause weak cardiac sensitization.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Propane on the human reproductive system

Mutagenicity. No mutagenicity effects have been described for Propane.

Embryotoxcity No embryotoxic effects have been described for Propane.

<u>Teratogenicity</u>: No teratogenicity effects have been described for this gas Propane.

Reproductive Toxicity: No reproductive toxicity effects have been described for Propane.

PROPANE - (C3H8) MSDS

# 11. TOXICOLOGICAL INFORMATION (Continued)

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines A reproductive toxin is any substance which interferes in any way with the reproductive process.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE. Acute or chronic respiratory conditions may be aggravated by over-exposure to the components of Propane.

BIOLOGICAL EXPOSURE INDICES (BEIs). Currently, Biological Exposure Indices (BEIs) are not applicable for

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary, treat symptoms, reduce or eliminate exposure

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY. This gas will be dissipated rapidly in well-ventilated areas. Propane is utilized and rapidly biodegraded by soil bacteria. Additional environmental data for Propane are available as follows:

PROPANE: Log Kow = 2 36 Water Solubility = 2 62 4 ppm at 25°C Log BCF = calculated, 1.56 and 1 78, respectively The bioconcentration in aquatic organisms is not expected to be important.

EFFECT OF MATERIAL ON PLANTS or ANIMALS. Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life.

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on Propane's effects on aquatic life

#### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally

# 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

**Alternate Description:** 

PROPER SHIPPING NAME: Propane

Petroleum gases, liquefied

HAZARD CLASS NUMBER and DESCRIPTION: 2 1 (Flammable Gas)

2 1 (Flammable Gas) UN 1978 UN 1075

**UN IDENTIFICATION NUMBER:** 

Not applicable.

Not applicable.

PACKING GROUP:

DOT LABEL(S) REQUIRED:

Flammable Gas

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT. Propane is not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172 101, Appendix B).

SPECIAL SHIPPING INFORMATION Cylinders should be transported in a secure position, in a well-ventilated vehicle The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS. THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

PROPANE - (C3H8) MSDS

## 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS**: Propane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370.21).

SARA THRESHOLD PLANNING QUANTITY: Not applicable.

TSCA INVENTORY STATUS Propane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY (RQ): Not applicable

#### OTHER U.S. FEDERAL REGULATIONS.

- Generally recognized as safe, (GRAS) when used as a propellant, aerating agent and gas, and for a pharmaceutical topical.
- Propane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Propane is subject to the requirements of CFR 29 1910.1000. Propane is listed on Table Z.1
- Propane is subject to the reporting requirements of Section 112(r) of the Clean Air Act The Threshold Quantity for of this gas is 10,000 pounds.
- Depending on specific operations involving the use of Propane, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910 119). Under this regulation Propane is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel
- Propane is listed as Regulated Substances in quantities of 10,000 lbs (4,553 kg) or greater, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Releases.

**OTHER CANADIAN REGULATIONS:** Propane is categorized as a Controlled Product, Hazard Classes A, and B1 as per the Controlled Product Regulations

STATE REGULATORY INFORMATION: Propane is covered under specific State regulations, as denoted below.

Alaska - Designated Toxic and Hazardous Substances: Propane

California - Permissible Exposure Limits for Chemical Contaminants: Propane Florida - Substance List: No

Illinois - Toxic Substance List: Propane Kansas - Section 302/313 List: No Massachusetts - Substance List: Propane. Minnesota - List of Hazardous Substances: Propane

Missouri - Employer Information/Toxic Substance List: Propane New Jersey - Right to Know Hazardous

Substance List: Prepane
North Dakota - List of Hazardous
Chemicals, Reportable Quantities: No.

Pennsylvania - Hazardous Substance List: Propane

Rhode Island - Hazardous Substance List: Propane

Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No

Wisconsin - Toxic and Hazardous Substances: No

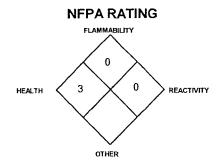
CALIFORNIA PROPOSITION 65 Propane is not on the California Proposition 65 lists

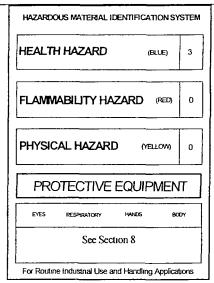
PROPANE - (C<sub>3</sub>H<sub>8</sub>) MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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# 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards Obtain and evaluate the safety information for each component before you produce the mixture Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5th floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

"Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

"Oxygen Deficient Atmospheres" SB-2

"Handbook of Compressed Gases"

#### PREPARED BY:

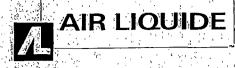
CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

Fax on Demand: 1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200 Other government regulations must be reviewed for applicability to Propane To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Propane is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

PROPANE - (C3H8) MSDS



# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHÁ, CMA, ANSI and Canadian WHMIS Standards

# 1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: METHANE

SYNONYMS: Methyl Hydride, Marsh Gas CHEMICAL FAMILY: Alkane (hydrocarbon)

FORMULA: CH4

PRODUCT USE.

Document Number: 10068

For fuel and synthetic chemical use

AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

#### 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole.%	EXPOSURE LIMITS IN AIR					
	,	, , , ,	ACGIH OSHA					
,		<u>'</u>	TLV	STEL	PEL	STEL	IDLH	OTHER
			ppm	ppm	ppm	ppm	ppm	[
Methane	74-82-8	> 98%	There are no specific exposure limits for Methane. Methane is a simple asphyxiant (SA) Oxygen levels should be maintained above 19 5%					
Maximum Impu	inties	< 2.0%						

NE = Not Established

C = Ceiling Limit

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-1993 format

METHANE- CH4 MSDS

**EFFECTIVE DATE: JANUARY 16, 2004** 

PAGE 1 OF 8

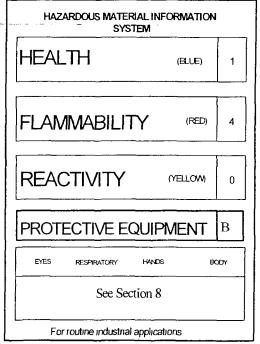
## 3. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW**. This product is a colorless, flammable gas. The gas poses a serious fire hazard when accidentally released. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to burst or rupture without activating the cylinder's relief devices. The gas is lighter than air, and may spread long distances. Distant ignition and flashback are possible. Methane is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Provide adequate fire protection during emergency response situations.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF -EXPOSURE.** The most significant route of over-exposure for this product is by inhalation.

INHALATION. High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Methane in air would be exceeded; possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

	,,
CONCENTRATION	SYMPTOM OF EXPOSURE
12-16% Oxygen	Breathing and pulse rate increased, muscular coordination slightly disturbed
10-14% Oxygen	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen	Nausea and vomiting, collapse or loss of consciousness
Below 6%:	Convulsive movements, possible respiratory collapse, and death



HEALTH EFFECTS OR RISKS FROM EXPOSURE: An

Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects

**ACUTE** The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas

TARGET ORGANS Respiratory system.

## 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant clothing must be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s)

# 5. FIRE-FIGHTING MEASURES

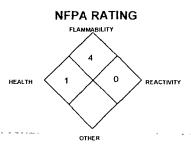
FLASH POINT: -306°F (-187.7°C)

**AUTOIGNITION TEMPERATURE:** 650°C (1202°F)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL). 5.0% Upper (UEL). 15.0%

FIRE EXTINGUISHING MATERIALS: Extinguish Methane fires by shutting-off the source of the gas Use water spray to cool fire-exposed containers, structures, and equipment.



UNUSUAL FIRE AND EXPLOSION HAZARDS. When involved in a fire,

this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide.

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn

Explosion Sensitivity to Mechanical Impact Not sensitive

Explosion Sensitivity to Static Discharge Static discharge may cause this product to ignite explosively, if released

**SPECIAL FIRE-FIGHTING PROCEDURES**: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles. Other information for pre-planning can be found in the American Petroleum Institute Publications 2510 and 2510A

# 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate. Combustible gas concentration must be below 10% of the LEL (5%) prior to entry. Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained

## 7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms. Non-sparking tools should be used.

**STORAGE AND HANDLING PRACTICES** Specific requirements are listed in NFPA 58 Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn.

METHANE- CH4 MSDS

# 7. HANDLING and USE (Continued)

Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barner of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers)

Keep the smallest amount on-site as is necessary Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS**: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

Before Use: Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, casing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with this product.

**STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:** Use the proper connections, <u>DO NOT USE</u> ADAPTERS:

THREADED:

0-500 psig CGA 510 0-3000 psig CGA 350 3001-5000 psig CGA 695 5501-7500 psig CGA 703

PIN-INDEXED YOKE. Not Applicable.

ULTRA HIGH INTEGRITY: Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT. Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

METHANE- CH4 MSDS

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**: Use with adequate ventilation Provide natural or explosion-proof ventilation adequate to ensure Methane does not reach its lower flammability limit of 5%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas

**RESPIRATORY PROTECTION** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

**EYE PROTECTION** Safety glasses.

**HAND PROTECTION** Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used. Use low-temperature protective gloves when working with containers of Liquid Methane

**BODY PROTECTION**. Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

#### 9. PHYSICAL and CHEMICAL PROPERTIES

pH Not applicable.

MOLECULAR WEIGHT: 16 042 EXPANSION RATIO: Not applicable.

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 23.6

GAS DENSITY @ 15.6°C (60°F) and 1 atm: 0 042 35 lb/ft<sup>3</sup> (0 6784 kg/m<sup>3</sup>)

BOILING POINT: -258.7°F (-161°C)

FREEZING/MELTING POINT @ 10 psig: -182°C (-296.5°F)

**SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F):** 0 555

SOLUBILITY IN WATER vol/vol @ 37.8°C (100°F): Very slight.

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD Not determined.

VAPOR PRESSURE @ 21.1°C (70°F) psig: Not applicable. COEFFICIENT WATER/OIL DISTRIBUTION. Not applicable

APPEARANCE AND COLOR. Coloriess, odoriess gas

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties of this gas In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

NOTE: This gas is lighter than air and must not be allowed to accumulate in elevated locations

## 10. STABILITY and REACTIVITY

STABILITY Stable.

**DECOMPOSITION PRODUCTS:** When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide, carbon dioxide

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE.** Strong oxidizers (i.e chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

HAZARDOUS POLYMERIZATION Will not occur

**CONDITIONS TO AVOID.** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

METHANE- CH4 MSDS

## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA. There is no specific toxicology data for Methane Methane is a simple asphyxiant, which acts to displace oxygen in the environment.

SUSPECTED CANCER AGENT. Methane is not found on the following lists. FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies

SENSITIZATION TO THE PRODUCT: Methane is not known to cause sensitization in humans.

IRRITANCY OF PRODUCT. This product is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Methane on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for. Methane

Embryotoxcity No embryotoxic effects have been described for Methane.

Teratogenicity No teratogenicity effects have been described for Methane

Reproductive Toxicity No reproductive toxicity effects have been described for Methane

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Acute or chronic respiratory conditions may be aggravated by over-exposure to Methane

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Methane.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary, treat symptoms; reduce or eliminate exposure

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS. Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on this product's effects on aquatic life.

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

#### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Methane, compressed

HAZARD CLASS NUMBER and DESCRIPTION: 2.1 (Flammable Gas)

**UN IDENTIFICATION NUMBER:** 

UN 1971

PACKING GROUP:

Not applicable.

DOT LABEL(S) REQUIRED:

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

METHANE- CH4 MSDS

**EFFECTIVE DATE: JANUARY 16, 2004** 

PAGE 6 OF 8

# 14. TRANSPORTATION INFORMATION (Continued)

**MARINE POLLUTANT**: Methane is not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

**SPECIAL SHIPPING INFORMATION**: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

**NOTE**. Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173 301 (b).

TRANSPORT-CANADA -TRANSPORTATION OF DANGEROUS GOODS -REGULATIONS -THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS - Use the above information for the preparation of Canadian Shipments.

#### 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS**: Methane is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act

SARA THRESHOLD PLANNING QUANTITY Not applicable

TSCA INVENTORY STATUS: Methane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY (RQ): Not applicable

#### OTHER U.S. FEDERAL REGULATIONS.

- Methane does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Methane is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for of this gas is 10,000 pounds
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910 119) Under this regulation Methane is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lb (4,553 kg) or greater is covered under this regulation unless it is used as a fuel.
- Methane is listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance. The threshold quantity for Methane under this regulation is 10,000 lbs

**OTHER CANADIAN REGULATIONS:** Methane is categorized as a Controlled Product, Hazard Classes A, and B1 as per the Controlled Product Regulations.

STATE REGULATORY INFORMATION: Methane is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Methane California - Permissible Exposure Limits for Chemical Contaminants: Methane

Florida - Substance List: No.
Illinois - Toxic Substance List:

Methane
Kansas - Section 302/313 List: No

Massachusetts - Substance List: Methane

Minnesota - List of Hazardous Substances: Methane

Missouri - Employer Information/Toxic Substance List: Methane

New Jersey - Right to Know Hazardous Substance List: Methane

North Dakota - List of Hazardous Chemicals, Reportable Quantities:

Pennsylvania - Hazardous Substance List: Methane

Rhode Island - Hazardous Substance List: Methane.

Texas - Hazardous Substance List:

West Virginia - Hazardous Substance List: No

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65 Methane is not on the California Proposition 65 lists.

METHANE- CH4 MSDS

# **16. OTHER INFORMATION**

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by. Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923. Telephone. (703) 788-2700.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"

SB-8 "Use of Oxy-fuel Gas Welding and Cutting Apparatus"

SB-2 "Oxygen Deficient Atmospheres"
"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand:

1-800/231-1366

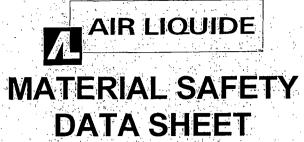


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

METHANE- CH4 MSDS

**EFFECTIVE DATE: JANUARY 16, 2004** 

PAGE 8 OF 8



Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

# 1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: HYDROGEN

SYNONYMS: Hydrogen, Compressed, Molecular Hydrogen

CHEMICAL FAMILY: Flammable Gas

FORMULA: H<sub>2</sub>

PRODUCT USE

Document Number: 10050

For general analytical/synthetic chemical uses.

AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

9101-LBJ-FREEWAY,SUITE-800

DALLAS,TX-75243

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information: 1-972/301-5200

Fax on Demand:

1-800/231-1366

# 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR					· .
	,		ACGIH		OSHA		OSHA	
	• •		TLV	STEL	PEL	STEL	IDLH	OTHER
		i,	ppm	ppm	ppm	pom	ppm	
Hydrogen	1333-74-0	99 9%	There are no specific exposure limits for Hydrogen Hydrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%					
Maximum Imp	associated provided in	with the pro- this Material	duct. All ha: Safety Data	zard informat Sheet, per th	ion pertinent e requiremen	cantly to the hazards to Hydrogen has been ts of the OSHA Hazard ents standards		

NE ≈ Not Established

C = Ceiling Limit

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-1993 format.

HYDROGEN - H2 MSDS

**EFFECTIVE DATE: JANUARY 1, 2005** 

PAGE 1 OF 7

**DICE 01402** 

#### 3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW Hydrogen is a colorless, odorless, flammable gas Hydrogen poses a serious fire hazard when it is accidentally released. The main health hazard associated with releases of this gas is asphyxiation, by displacement of oxygen. Flame or high temperature impinging on a localized area of the cylinder of Hydrogen can cause the cylinder to rupture or burst without activating the cylinder's relief devices. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY EXPOSURE. The most significant route of over-exposure for Hydrogen is by inhalation.

INHALATION: High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Hydrogen in air would be exceeded, possibly causing an oxygen-deficient and explosive atmosphere Individuals breathing an oxygen deficient atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses Under some circumstances of over-exposure, death may occur The following effects associated with various levels of oxygen are as follows:

CONCENTRATION SYMPTOM OF EXPOSURE 12-16% Oxygen: Breathing and pulse rate increased, muscular coordination slightly disturbed. Emotional upset, abnormal fatigue, 10-14% Oxygen: disturbed respiration Nausea and vomiting, collapse or loss 6-10% Oxygen. of consciousness

respiratory collapse, and death

Convulsive

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects

ACUTE The most significant hazard associated with Hydrogen is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur The skin of a victim of over-exposure may have a blue color.

movements,

possible

CHRONIC There are currently no known adverse health effects associated with chronic exposure to the components of this compressed gas

TARGET ORGANS: Respiratory system.

Below 6%:

#### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO HYDROGEN WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Only trained personnel should administer supplemental oxygen Victim(s) must be taken for medical attention Rescuers should be taken for medical attention, if necessary Take

copy of label and MSDS to physician or other health professional with victim(s)

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable, flammable gas

**AUTOIGNITION TEMPERATURE:** 565 5°C (1050°F)

**EFFECTIVE DATE: JANUARY 1, 2005** 

HAZARDOUS MATERIAL INFORMATION

SYSTEM

(BLUE)

WELLOW

0

4

0

В

HEALTH

FLAMMABILITY

PROTECTIVE EQUIPMENT

See Section 8

For routine industrial applications

RESPIRATORY

REACTIVITY

HYDROGEN - H2 MSDS

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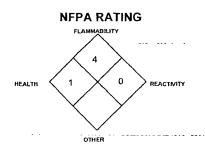
# 5. FIRE-FIGHTING MEASURES (Continued)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 4 0% Upper (UEL). 75%

**FIRE EXTINGUISHING MATERIALS**. Extinguish Hydrogen fires by shutting-off the source of the gas. Use water spray to cool fire-exposed containers, structures, and equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS An extreme explosion hazard exists in areas in which the gas has been released, but the material has not yet ignited. Hydrogen burns with an almost invisible blue in flame



**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of Hydrogen can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not sensitive

<u>Explosion Sensitivity to Static Discharge</u>: Static discharge may cause this gas to ignite explosively. Due to low electrical conductivity, this substance can generate electrostatic charges during handling operations.

SPECIAL FIRE-FIGHTING PROCEDURES. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. The best fire-fighting technique may be simply to let the burning gas escape from the cylinder or pipeline. Stop the leak before extinguishing fire. If the fire is extinguished before the leak is sealed, the still-leaking gas could explosively re-ignite without warning and cause extensive damage, injury, or fatality. In this case, increase ventilation to prevent flammable or explosive mixture formation. Evacuation may be necessary. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles

#### 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE** Evacuate immediate area Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a gas release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response.

Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray Allow the gas, which is lighter than air, to dissipate. Combustible gas concentration must be below 10% of the LEL (4.0%) prior to entry Monitor the surrounding area for combustible gas levels and oxygen level. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area, away from sources of ignition, and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained

#### 7. HANDLING and USE

**WORK PRACTICES AND HYGIENE PRACTICES**: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of Hydrogen could occur without any significant warning symptoms. Non-sparking tools should be used.

STORAGE AND HANDLING PRACTICES Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn Do not allow area where cylinders are stored to exceed 52°C (125°F) Store containers away from heavily trafficked areas and emergency exits

HYDROGEN - H2 MSDS

# 7. HANDLING and USE (Continued)

STORAGE AND HANDLING PRACTICES (continued): Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Keep the smallest amount necessary on-site at any one-time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

Before Use: Move cylinders with a suitable hand-truck Do not drag, slide or roll cylinders Do not drop cylinders or permit them to strike each other Secure cylinders firmly Leave the valve protection cap (where provided) in-place until cylinder is ready for use

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings Doing so may damage valve, casing a leak to occur Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit

After Use: Close main cylinder valve Valves should be closed tightly Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with Hydrogen. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner. For additional information, refer to NFPA 50A and OSHA 1910 103.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, DO NOT **USE ADAPTERS:** 

THREADED:

0-3000 psig

**CGA 350** 

3001-5500 psig

CGA 695

5501-7500 psig

**CGA 703** 

PIN-INDEXED YOKE: Not Applicable.

ULTRA HIGH INTEGRITY 724.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS. Use with adequate ventilation. Provide natural or explosionproof ventilation adequate to ensure Hydrogen does not reach its lower flammability limit of 4 0%. Local exhaust ventilation is preferred, because it prevents chemical dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of flammable gas.

HYDROGEN - H2 MSDS

# 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

RESPIRATORY PROTECTION. Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of Hydrogen. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards

EYE PROTECTION: Safety glasses.

**HAND PROTECTION** Wear leather gloves when handling cylinders of Hydrogen Otherwise, wear glove protection appropriate to the specific operation for which Hydrogen is used

**BODY PROTECTION:** Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. Transfer of large quantities under pressure may require use of fire retardant clothing.

# 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.00521 lb/ft<sup>3</sup> (0 08342 kg/m<sup>3</sup>)

BOILING POINT @ 1 atm. -423 0 °F; -253.0 °C

FREEZING/MELTING POINT @ 1 atm: -259°C (-434 6°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 0 069

pH. Not applicable.

SOLUBILITY IN WATER Vol/Vol @ 15.6°C (60°F): 0.019 MOLECULAR WEIGHT: 2.016

EVAPORATION RATE (nBuAc = 1): Not applicable.

**EXPANSION RATIO**: Not applicable.

ODOR THRESHOLD: Not applicable

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 192

VAPOR PRESSURE @ 21.1°C (70°F) psig. Not applicable. COEFFICIENT WATER/OIL DISTRIBUTION. Not applicable

APPEARANCE AND COLOR. Colorless, odorless gas at standard atmosphere and temperature.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation. NQTE: This gas is lighter than air and must not be allowed to accumulated in elevated locations.

# 10. STABILITY and REACTIVITY

STABILITY. Stable.

DECOMPOSITION PRODUCTS: Hydrogen, when ignited in the presence of oxygen, water will be produced.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (i.e. chlorine, bromine, pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride). Oxygen/Hydrogen mixtures can explode on contact with a catalyst such as platinum

HAZARDOUS POLYMERIZATION. Will not occur

**CONDITIONS TO AVOID:** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst

#### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**. There are no specific toxicology data for Hydrogen Hydrogen is a simple asphyxiant (SA), which acts to displace oxygen in the environment

SUSPECTED CANCER AGENT: Hydrogen is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**: Hydrogen is not irritating, however, contact with rapidly expanding gases can cause frostbite to exposed tissue

SENSITIZATION TO THE PRODUCT. Hydrogen is not known to cause sensitization in humans.

**REPRODUCTIVE TOXICITY INFORMATION.** Listed below is information concerning the effects of Hydrogen on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for Hydrogen.

Embryotoxcity No embryotoxic effects have been described for Hydrogen.

Teratogenicity No teratogenicity effects have been described for Hydrogen.

Reproductive Toxicity: No reproductive toxicity effects have been described for Hydrogen

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## 11. TOXICOLOGICAL INFORMATION (Continued)

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE. Acute or chronic respiratory conditions may be aggravated by over-exposure to Hydrogen

BIOLOGICAL EXPOSURE INDICES (BEIs) Currently, Biological Exposure Indices (BEIs) are not applicable for Hydrogen.

RECOMMENDATIONS TO PHYSICIANS. Administer oxygen, if necessary, treat symptoms; reduce or eliminate exposure.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY Hydrogen occurs naturally in the atmosphere This gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS. Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life

EFFECT OF CHEMICAL ON AQUATIC LIFE No evidence is currently available on Hydrogen's effects on aquatic life

#### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors, away from all sources of ignition.

## 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Hydrogen, compressed

HAZARD CLASS NUMBER and DESCRIPTION: 21 (Flammable Gas)

**UN IDENTIFICATION NUMBER:** 

UN 1049

**PACKING GROUP:** 

Not applicable.

DOT LABEL(S) REQUIRED:

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT. Hydrogen is not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172 101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilation vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS Use the above information for the preparation of Canadian Shipments.

#### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Hydrogen is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA THRESHOLD PLANNING QUANTITY: Not applicable.

TSCA INVENTORY STATUS: Hydrogen is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITY (RQ): Not applicable

## 15. REGULATORY INFORMATION (Continued)

HYDROGEN - H2 MSDS

**EFFECTIVE DATE: JANUARY 1, 2005** 

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#### OTHER U.S. FEDERAL REGULATIONS:

- Hydrogen is subject to the reporting requirements of Section 112(r) of the Clean Air Act The Threshold Quantity for of this gas is 10,000 pounds.
- Depending on specific operations involving the use of Hydrogen, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119) Under this regulation Hydrogen is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a
- Hydrogen does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Hydrogen is listed as Regulated Substances in quantities of 10,000 lbs (4,553 kg) or greater, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release.

OTHER CANADIAN REGULATIONS: Hydrogen is categorized as a Controlled Product, Hazard Class A, B1 as per the Controlled Product Regulations.

**STATE REGULATORY INFORMATION** Hydrogen is covered under specific State regulations, as denoted below.

Alaska - Designated Toxic and Hazardous Substances: Hydrogen California - Permissible Exposure Limits

for Chemical Contaminants: Hydrogen Florida - Substance List: Hydrogen Illinois - Toxic Substance List: Hydrogen Kansas - Section 302/313 List: No

Massachusetts - Substance List: Hydrogen.

Minnesota - List of Hazardous Substances: Hydrogen

Missouri - Employer Information/Toxic Substance List: Hydrogen

New Jersey - Right to Know Hazardous Substance List: Hydrogen North Dakota - List of Hazardous

Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Hydrogen.

Rhode Island - Hazardous Substance List: Hydrogen

Texas - Hazardous Substance List: No. West Virginia - Hazardous Substance List:

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65. Hydrogen is not on the California Proposition 65 lists.

## **16. OTHER INFORMATION**

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards Obtain and evaluate the safety information for each component before you produce the mixture 
Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or

Further information about Hydrogen, can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5th floor, Chantilly, VA 20151-2923. Telephone. (703) 788-2700.

> G-5 "Hydrogen"

"Commodity Specification for Hydrogen" G-5.3

P-1 "Safe Handling of Compressed Gases in Containers"

"Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres" P-14

"Oxygen Deficient Atmospheres" SB-2 "Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.

9163 Chesapeake Drive, San Diego, CA 92123-1002

619/565-0302

Fax on Demand: 1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to Hydrogen. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Hydrogen is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

HYDROGEN - H2 MSDS

**EFFECTIVE DATE: JANUARY 1, 2005** 

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# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

## 1. PRODUCT AND COMPANY INFORMATION

**CHEMICAL NAME: CLASS:** 

**ETHYLENE OXIDE** 

SYNONYMS: Amprolene; Anprolene; Anproline; Dihydrooxirene; Dimethylene Oxide,

ENT 26,263; E.O., 1,2-Epoxyethane; Ethene Oxide, ETO, Merpol; Oxyane,

Oxacyclopropane, Oxidoethane;  $\alpha, \beta$  -Oxidoethane; Oxirane; Oxyfume, T-Gas

CHEMICAL FAMILY NAME: Hydride

FORMULA: C<sub>2</sub>H<sub>4</sub>O

PRODUCT USE:

Document Number. 20068

Chemical intermediate for manufacture of ethylene glycol and higher glycols; sterilant for surgical instruments; and fumigant for foodstuffs and textiles; component of fungicide in agricultural applications; starting material for acrylonitrile and non-ionic surfactants.



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

EMERGENCY PHONE: CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand: 1-800/231-1366

#### 2. HAZARD IDENTIFICATION

EMERGENCY: OVERVIEW: Ethylene Oxide is a colorless, highly reactive, toxic, flammable gas at normal temperature pressure, and a colorless liquid below 10.4°C (50.7°F). Both the liquid and the gas have an ether-like odor. Exposure to even very small quantities can result in severe health effects, inhalation of higher concentrations may be fatal. Ethylene Oxide is a suspected human carcinogen and a reproductive toxin Ethylene Oxide can form flammable mixtures in air and presents an extreme fire hazard when accidentally released. Ethylene Oxide is slightly heavier than air and may travel a considerable distance to a source of ignition and flash-back to a leak. Ethylene oxide is highly reactive and can undergo hazardous polymerization if contaminated. Emergency responders must wear adequate personal protective equipment and provide suitable fire protection during response situations.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of over-exposure for Ethylene Oxide are by inhalation, ingestion and skin and eye contact:

INHALATION: Ethylene Oxide is considered moderately toxic by inhalation. Exposure to low concentrations of vapors of Ethylene Oxide can result in nausea, vomiting, and other effects on the central nervous system. These symptoms can be delayed for five or more hours after exposure. Inhalation of low to moderate concentrations of Ethylene Oxide will cause imitation of the nose, throat, mucous membranes and upper respiratory tract. Inhalation of high concentrations of Ethylene Oxide (as may occur if Ethylene Oxide is used or released in a poorly-ventilated area or confined space, or during a release of large volumes of this product), can cause potentially fatal pulmonary edema. Odor is not a reliable warning property for Ethylene Oxide; inhalation of low concentrations of this gas can cause olfactory fatigue rather rapidly.

CONTACT WITH SKIN or EYES: Contact of vapors or liquid with the skin can cause blistering to severe, delayed chemical burns. Skin ulcers may be delayed, often appearing one to five hours after contact. Allergic dermatitis may occur after prolonged or repeated skin exposures. Contact of vapors with the eyes can cause moderate to severe irritation, resulting in tearing, redness and burns. Direct contact of Liquid Ethylene Oxide with the eyes, will cause severe irritation and corneal injury, possibly leading to blindness. Repeated eye over-exposure may lead to cataracts

**SKIN ABSORPTION:** Ethylene Oxide may be absorbed through intact skin, causing systemic poisoning as described under "Other Potential Health Effects".

**INGESTION:** Ingestion is not anticipated to be a significant route of industrial over-exposure for Ethylene Oxide If ingested, Ethylene Oxide is toxic by ingestion, causing symptoms of systemic poisoning as described under "Other Potential Health Effects".

OTHER POTENTIAL HEALTH EFFECTS: Ethylene Oxide is a poison by ingestion, intraperitoneal, subcutaneous and intravenous routes. Human system effects by these routes and by inhalation can lead to convulsions, nausea, vomiting, olfactory and pulmonary changes, drowsiness, weakness and incoordination, EKG abnormalities, and cyanosis. Ethylene Oxide is a suspected human carcinogen (potentially causing leukemia, as well as stomach and pancreatic cancers) with experimental carcinogenic, tumorigenic, neoplastigenic and teratogenic data. Overexposure to Ethylene Oxide may also cause liver, kidney, and central nervous system damage. For further information, see Section 11, Toxicological Information.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms Over-exposure to Ethylene Oxide may cause the following health effects.

**ACUTE** Ethylene Oxide is a severe irritant via inhalation, skin and eye contact and may cause delayed injury. Exposure to low concentrations by inhalation can cause nausea and vomiting, which can also be delayed after exposure. Acute over-exposure to high concentrations via inhalation can lead to potentially fatal pulmonary edema. Contact of the liquid with the eyes can cause comeal burns and possibly blindness. Acute exposure via all routes can lead to systemic poisoning, leading to symptoms of convulsions, nausea, vomiting, cyanosis and changes in olfactory senses, pulmonary system and to EKG abnormalities

ETHYLENE OXIDE - C2H4O - MSDS

## 2. HAZARD IDENTIFICATION (Continued)

CHRONIC: Ethylene Oxide is a suspected human carcinogen. Experimental data are available as to the tumorigenic, carcinogenic, neoplastigenic and teratogenic properties of Ethylene Oxide. Refer to Section 11 (Toxicology Information) for additional data. Repeated exposure to low levels of the gas or liquid may lead to dermatitis, with symptoms of redness, dried and cracked skin.

TARGET ORGANS: Respiratory system, skin, eyes reproductive system, kidney, liver

## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS# mole %	EXPOSURE LIMITS IN AIR ALL TO A REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF TH
		ACGIH OSHA
		TLV STEL PEL STEL IDLH  ppm ppm ppm ppm ppm
Ethylene Oxide	75-21-8 -> 99 0%	1, A2, NE 1
Maximum Impui	ntes <1 0%	None of the trace impurities in this product contribute significantly to the hazards associated with the product. All hazard information pertinent to this product has been provided in this Material Safety Data Sheet, per the requirements of the OSHA Hazard Communication Standard (29 CFR 1910 1200) and State equivalents standards

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format.

#### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO ETHYLENE OXIDE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Chemically-Resistant and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

Remove victim(s) to fresh air, as quickly as possible. Treatment for Ethylene Oxide poisoning must be prompt. All over-exposed individuals must receive medical evaluation, because the development of symptoms to potentially life-threatening conditions may be delayed. Keep victims warm and comfortable:

**INHALATION**. If vapors, mists, or sprays of any of Ethylene Oxide are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Remove or cover gross contamination to avoid exposure to rescuers.

SKIN EXPOSURE: If Ethylene Oxide contaminates the skin, <u>immediately</u> begin decontamination with running water. <u>Minimum</u> flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eves

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s). Specific notes to physicians are located in Section 11, Toxicological Information.

ETHYLENE OXIDE - C2H4O - MSDS

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT: -20°C (-4°F)

AUTOIGNITION TEMPERATURE: 429°C (804°F) 🔆

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL) 3.0% Upper (UEL) 100%

FIRE EXTINGUISHING MATERIALS: Extinguish Ethylene Oxide fires by shutting-off the source of the gas. Use a fine water spray or fog to reduce combustion products formed in air. Cool fire-exposed cylinders with water spray from the maximum distance possible. Alcohol foam, carbon dioxide or dry chemical forms of fire extinguishing agents can be used against Ethylene Oxide fires

UNUSUAL FIRE AND EXPLOSION HAZARDS: Ethylene oxide presents a senous health hazard to firefighters; short-term over-exposures to this substance can cause serious injury or death. Ethylene Oxide is a Class IA flammable liquid. Ethylene Oxide will readily ignite at room temperature. Ethylene Oxide is slightly heavier than air and can travel considerable distances to a source of ignition and flash-back to the leak. Ethylene Oxide can react violently with water, and can undergo hazardous polymerization.

DANGER! Fires impinging (direct flame) on the outside surface of unprotected cylinders of this product can be very dangerous. Direct flame exposure on the cylinder wall can cause an explosion either by BLEVE (Boiling Liquid Expanding Vapor Explosion), or by exothermic decomposition. This is a catastrophic failure of the cylinder releasing the contents into a massive fireball and explosion. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not sensitive

<u>Explosion Sensitivity to Static Discharge</u>: Sensitive. Static charge can build-up and may cause this product to ignite explosively if released

SPECIAL FIRE-FIGHTING PROCEDURES In the event of fire, cool containers of this product with water to prevent failure. Use a water spray or fog to reduce or direct vapors. Water is not effective in actually extinguishing a fire involving Ethylene Oxide, due to its low flash point and the potential for an explosive chemical reaction. Stop the leak or discharge, if possible. For small releases, if it is not possible to stop the leak, and it does not endanger personnel, let the fire burn itself out. Incipient fire responders should wear eye protection. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Appropriate chemically-protective clothing may be necessary. Keep away from low-lying areas. Stay upwind. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of vessel exposures, evacuate the area. Follow the guidelines of the North American Emergency Response Guidebook (Guide #119).

## 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: If a leak occurs of a sufficient quantity to cause a dangerous level of Ethylene Oxide, evacuate the immediate area of all personnel. Uncontrolled releases should be responded to by trained personnel using preplanned procedures. Proper protective equipment must be used. In case of a release, clear the affected area, protect people, and respond with trained personnel.

Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. If the gas is leaking from cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response

Minimum Personal Protective Equipment should be Level A: fully encapsulating suit, triple-layer of gloves (neoprene over nitrile and N-Dex or latex), chemically-resistant boots, hard-hat, and Self-Contained Breathing Apparatus. Level A protection must be worn during emergency response situations in all areas in which the level of exposure to Ethylene Oxide is above 50% of the TLV (1 ppm) Fire retardant gear must be worn under Level A protection when Ethylene Oxide levels exceed 10% of the LEL (3 0%).

Locate and seal the source of the leaking gas. Protect personnel attempting the shut-off with water-spray. Allow the gas to dissipate, if it can be done to an area in which there are no personnel. Combustible gas concentration must be below 10% of the LEL (3.0%) prior to entry. Monitor the surrounding area for toxic Ethylene Oxide levels as well as combustible gas levels and oxygen level. The atmosphere must be below 50% of the TLV (1 ppm) of Ethylene Oxide and must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area.

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## 7. HANDLING AND STORAGE

If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in-place or remove it to a safe area and allow the gas to be released there.

NOTE. A colorimetric tubes and direct reading instruments are available for Ethylene Oxide.

THIS IS AN EXTREMELY TOXIC, REACTIVE, FLAMMABLE GAS. Protection of all personnel and the area must-be maintained WORK PRACTICES AND HYGIENE PRACTICES. All areas where Ethylene Oxide is used should be monitored with very sensitive gas detection instruments. Detection of concentrations below 50% of the TLV level of 1 ppm should trigger immediate response and corrective action. Detection of higher levels should initiate an alarm calling for evacuation of all personnel with the potential to be exposed. Due to the toxicity of Ethylene Oxide, all contaminated clothing should be removed and placed in a sealed container for proper disposal.

NOTE: Refer to the OSHA Ethylene Oxide Standard (29 CFR 1910-1047) for specific requirements associated with the use of this gas. The Action Level for Ethylene Oxide is 0.5 ppm. In workplaces where employees are exposed above the Action Level, the OSHA requirements for monitoring, establishment of regulated areas, methods of compliance, respiratory protection, emergency response protocol, medical surveillance, training, and record-keeping must be followed

STORAGE AND HANDLING PRACTICES: Entrances to regulated areas (as defined by the OSHA Ethylene Oxide Standard) must be posted with legible signs which reads as follows.

## THE REPORT OF THE PANGER (THE PARK)

ETHYLENE OXIDE

CANCER HAZARD AND REPRODUCTIVE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING MAY BE REQUIRED TO
BE WORN IN THIS AREA

Additionally, refer to Appendix A of the Ethylene Oxide Standard (29 CFR 1910.1047) to determine specific workplace practices (e.g., changing supply line filters, work in restricted access areas, door opening procedures, sterilizers without purge cycles, chamber unloading procedures, maintenance).

Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity). Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers). Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

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## 7. HANDLING AND STORAGE (Continued)

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit

After Use: Close main cylinder valve Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for flammable, reactive, and toxic gas storage. Earthground and bond all lines and equipment associated with this product. Close valve after each use and when empty.

THREADED CGA 510

PIN-INDEXED YOKE. Not applicable

Not applicable.PROTECTIVE PRACTICES DURING MAINTENANCE OF ULTRA HIGH INTEGRITY CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Install automatic monitoring equipment to detect the level of Ethylene Oxide Provide explosion-proof ventilation adequate to ensure Ethylene Oxide does not reach its lower flammability limit of 3 0%. Process enclosure and local exhaust ventilation is recommended for operations involving Ethylene Oxide Refer to Appendix A of the OSHA Ethylene Oxide Standard (29 CFR 1910.1047) for specific information on workplace design and engineering controls (e.g. gas line hand valves, "capture boxes", and ventilation systems for aeration units, sterilizer relief valves, and in areas in which cylinder are changed)

RESPIRATORY PROTECTION: Maintain Ethylene Oxide levels below 50% of the TLV (1 ppm) and oxygen levels above 19.5% in the workplace. The use of supplied air respiratory protection is recommended when changing Ethylene Oxide cylinders or working on Ethylene Oxide systems. Use supplied air respiratory protection when Ethylene Oxide levels exceed 50% of the TLV (1 ppm), oxygen levels are below 195%, or during emergency response to a release of this product. During an emergency situation, before entering the area, check the concentration of Ethylene Oxide and oxygen If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910 134), or equivalent State standards. The following NIOSH guidelines for respirator selection are provided for additional information:

#### RESPIRATORY EQUIPMENT CONCENTRATION

Escape

Up to 5 ppm

Gas mask with canister, full-facepiece SCBA or full-facepiece Supplied Air Respirator

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive-pressure, full facepiece SCBA or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Gas mask with canister to protect against Ethylene Oxide or escape-type SCBA should

be used

The IDLH concentration for Ethylene Oxide is 800 ppm, however, the carcinogenic properties of Ethylene Oxide were not taken into consideration in determining the IDLH.

NOTE: Follow the specific respiratory selection guidelines of the OSHA Ethylene Oxide Standard in regulated areas (as defined by 29 CFR 1910.1047)

EYE PROTECTION. Safety glasses or goggles, with faceshield.

HAND PROTECTION: Wear leather gloves for handling of cylinders of this product; however, if contaminated, should be discarded as Ethylene Oxide will be retained in the leather and can cause burns or allergic skin rashes. Wear chemically impervious gloves appropriate for Ethylene Oxide for industrial use. Gloves should have a resistance to breakthrough greater than 8 hours, such as polyvinyl alcohol, Barncade™, Chemrel™, or Responder™. Natural rubber, neoprene, nitrile rubber, or polyethylene, polyvinyl chloride, Viton™, Saranexl™ are not recommended Use triple gloves for spill response (see Section 6, Accidental Release Measures)

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## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

BODY PROTECTION: Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders. For emergency response operations, clothing resistant to the toxic effects of Ethylene Oxide is required (i.e., Level A Protection)

## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 20°C (68°F) and 21.1 psia (146.0 kPa abs): 0.1751 lb/ft<sup>3</sup> (2.804 kg/m<sup>3</sup>) LIQUID DENSITY @ 20°C (68°F) and 21.1 psia (146.0 kPa abs): 54.30 lb/ft<sup>3</sup> (869 8 kg/m<sup>3</sup>)

BOILING POINT @ 14.7 psia (101.3 kPa abs): 10 4°C (50.7°F)

FREEZING/MELTING POINT @ 14.7 psia (101.3 kPa abs): -112 6°C (-170.7°F)

SPECIFIC GRAVITY (air = 1): 1 52

pH: Not applicable

SOLUBILITY IN WATER: Miscible.

MOLECULAR WEIGHT: 44.05

EVAPORATION RATE (nBuAc = 1): Not available

EXPANSION RATIO: Not applicable.

VAPOR PRESSURE @ 20°C (68°F): 21 1 psia (146 0 kPa)

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 5.0

ODOR THRESHOLD: 420 ppm (detection), 490 ppm (recognition)

COEFFICIENT WATER/OIL DISTRIBUTION: Log P (oct) = -0.30.

APPEARANCE AND COLOR: Colorless gas with an ether-like odor at normal pressure and temperature; colorless

liquid, with an ether-like odor below 10 4°C (50 7°F)

**HOW TO DETECT THIS SUBSTANCE (warning properties):** The odor of Ethylene Oxide is not a good warning property as it will rapidly cause olfactory fatigue. Monitoring systems must be used for detection of this gas.

## 10. STABILITY and REACTIVITY

STABILITY Ethylene Oxide is highly reactive. Ethylene Oxide may undergo a runaway reaction with water.

**DECOMPOSITION PRODUCTS**: When involved in a fire, this material may decompose and produce toxic gases (i.e., carbon monoxide, carbon dioxide), irritating fumes and acrid smoke

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Ethylene Oxide can polymerize violently when in contact with highly catalytic surfaces such as anhydrous iron, fin, aluminum chloride, and ammonia, pure iron, aluminum oxides, and alkali metal hydroxides. Ethylene Oxide is incompatible with bases, alcohols, air, m-nitroaniline, trimethyl amine, copper, iron chlorides, iron oxides, magnesium perchlorate, mercaptans, potassium, alkane thiols and bromomethane. Ethylene Oxide reacts explosively with glycerol above 200°F (93.3°C). Rapid compression of the vapor of Ethylene Oxide with air can cause an explosion.

HAZARDOUS POLYMERIZATION. Hazardous polymerization may occur if contaminated or in contact with incompatible materials, as listed above

**CONDITIONS TO AVOID**: Contact with incompatible materials and exposure to moisture and to heat, sparks and other sources of ignition.

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#### 11. TOXICOLOGICAL INFORMATION

#### TOXICITY DATA: The following data are available for Ethylene Oxide:

Unscheduled DNA Synthesis-Human leukocyte 4 mmol/L lymphocyte 4 Sister Chromatid Exchange-Human Teratogenesis, Carcinogenesis, and Mutagenesis Skin-Human 1%/7 seconds

Eye effects-Rabbit, adult 18 mg/6 hours Moderate irritation effects Mutation in Microorganisms-other microorganisms 540 mg/L Sister Chromatid Exchange-Human, lymphocyte 10 mg/L

DNA Damage-Mouse-Intrapentoneal 100 mg/kg

Dominant Lethal Test-Mouse-Inhalation 500 ppm/6 hours/4 dayscontinuous

Intrapentoneal-Mouse TDLo 750 ma/ka (male pre) Reproductive effects

Inhalation-Mouse TCLo 1200 ppm/90 minutes (female 1 day post) Teratogenic effects

Oral-Rat TDLo 1186 mg/kg/2 years- intermittent Carcinogenic effects

Inhalation-Rat TCLo. 33 ppm/6 hours/2 years- intermittent Carcinogenic effects

Inhalation-Mouse TDLo: 50 ppm/6 hours/2 years Carcinogenic effects, tumors

Subcutaneous-Mouse TDLo 292 mg/kg/95 weeks- intermittent Carcinogenic effects

Subcutaneous-Mouse TD 1090 mg/kg/91 weeks - intermittent Neoplastic effects

Subcutaneous-Mouse TD 908 mg/kg/95 weeks - Intermittent Carcinogenic effects

Subcutaneous-Mouse TD. 2576 mg/kg/95 weeks - intermittent Carcinogenic effects

Oral-Rat TD 5112 mg/kg/2 years - intermittent Carcinogenic effects 50 ppm/7 hours/2 years - intermittent Inhalation-Rat TC Carcinogenic effects

Inhalation-Rat TC 33 ppm/6 hours/2 years - intermittent Equivocal tumorigenic agent

Inhalation-Rat TC 33 ppm/6 hours/2 years - intermittent Carcinogenic effects

Inhalation-Human TCLo 12,500 ppm/10 seconds nose

Inhalation-Woman TCLo 500 ppm/2 minutes. Central nervous Gastrointestinal tract , Pulmonary system effects Oral-Rat LD<sup>50</sup> 72 mg/kg

Inhalation-Rat LC50: 800 ppm/4 hours Subcutaneous-Rat LD<sub>50</sub>: 187 mg/kg Inhalation-Mouse LC50: 836 ppm/4 hours Intrapentoneal-Mouse LD<sub>50</sub> 175 mg/kg Intravenous-Mouse LD<sub>50</sub> 290 mg/kg Inhalation-Dog, adult LC50 960 ppm/4 hours Subcutaneous-Cat, adult LDLo. 100 mg/kg

Intravenous-Rabbit, adult LDLo 175 mg/kg

Inhalation-Guinea Pig, adult LC50 1500 mg/m3/4 hours

SUSPECTED CANCER AGENT: Ethylene Oxide is listed as follows IARC-2A (Probably Carcinogenic to Humans; Limited Human Evidence/Sufficient Evidence in Experimental Animals), MAK-A2 (Unmistakable Carcinogenic in Animal Experimentation Only), NTP-2A (Reasonably Anticipated to be a Carcinogen; Limited Evidence of Carcinogenicity from Studies with Humans); OSHA-X (Carcinogen); NIOSH-X (Carcinogen), ACGIH-A2 (Suspected Human Carcinogen).

IRRITANCY OF PRODUCT: Ethylene Oxide is moderately to severely irritating to contaminated skin and severely irntating to the eyes

SENSITIZATION TO THE PRODUCT. Ethylene Oxide is a sensitizer after prolonged or repeated over-exposures. REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product on the human reproductive system.

Mutagenicity. Studies indicate that Ethylene Oxide workers are more likely to have chromosomal damage that similar workers not exposed to this substance Human mutation data are also available for Ethylene Oxide; these data were obtained during clinical studies on specific numan tissues exposed to this substance.

Embryotoxcity Ethylene Oxide may cause embryotoxic effects There is an increased incidence of spontaneous abortions among workers in Ethylene Oxide production

Teratogenicity Ethylene Oxide may be teratogenic and damage the developing fetus. Animal teratogenicity data are available from clinical studies

Reproductive Toxicity: There is an increased incidence of gynecological disorders among workers in ethylene oxide production. One study indicated a reduced sperm count in exposed workers. Data on adverse reproductive effects are also available from animal studies

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines An embryotoxin is a chemical which causes damage to a developing embryo (i.e within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE. Acute or chronic respiratory conditions may be aggravated by over-exposure to this product. Additionally, blood, kidney, liver and cardiovascular conditions may also be aggravated (depending on the severity and duration of the over-exposure).

RECOMMENDATIONS TO PHYSICIANS. If victim experiences nausea and vomiting, sufficient quantities of warm water should be administered in order to wash out stomach. Unpublished reports indicate that, for persistent nausea and vomiting caused by inhalation of Ethylene Oxide vapors, an intramuscular injection of sodium phenobarbital (of 2 grains), is very helpful in controlling such symptoms

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## 11. TOXICOLOGICAL INFORMATION (Continued)

In event of severe exposure and if victim is still breathing, victim should be administered 100% oxygen under positive exhalation pressure for one-half hour periods every hour for at least three hours. If no sign of lung congestion appears after this period and if breathing is easy and skin and mucous membranes show good color, oxygen therapy can be discontinued. If breathing has stopped, artificial respiration should be started preferably while administering oxygen, preferably

For skin burns resulting in blister formation, evacuate blisters and apply solid petroleum dressings. Skin burns from exposure to aqueous solutions of Ethylene Oxide should receive copious irrigation of normal saline followed by application of a topical antimicrobial agent, such as silver sulfadiazine cream and a dressing. Signs of burns may not appear after exposure for up to 5 hours

Refer to the OSHA Ethylene Oxide Standard (29 CFR 1910.1047; paragraph I) for specific information on Medical Surveillance requirements (i.e. for the general physical exam, medical history, specific tests, and re-examination protocol) Physical examinations must be given with emphasis on the skin and eyes, as well as the pulmonary, hematologic, neurologic, and reproductive systems.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Ethylene Oxide

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY This gas will be dissipated rapidly in well-ventilated areas. Based on limited data, .... Ethylene Oxide is expected to biodegrade at a reasonable rate after acclimation.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Ethylene Oxide is an extremely toxic gas which can be harmful or fatal to over-exposed plant or animal life. Refer to Section 11 (Toxicology Information) for data on Ethylene Oxide's effects on test animals during clinical studies No specific studies on the bio-concentration of Ethylene Oxide have been completed, however, due to the low octanol/water partition coefficient of Kow = -03. Ethylene Oxide is not expected to bio-concentrate significantly

EFFECT OF CHEMICAL ON AQUATIC LIFE: Ethylene Oxide is an extremely toxic gas which is soluble in water; therefore, this gas can be harmful or fatal to aquatic life in contaminated bodies of water. The following aquatic toxicity data are available for Ethylene Oxide

LC50 Goldfish 90 mg/L/24 hours, modified ASTM D 1345.

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally

## 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME.

Ethylene Oxide

HAZARD CLASS NUMBER and DESCRIPTION: 2 3 (Poison Gas)

**UN IDENTIFICATION NUMBER** 

UN 1040

PACKING GROUP

Not applicable

DOT LABEL(S) REQUIRED

Poison Gas, Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 119

MARINE POLLUTANT. Ethylene Oxide is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172 101, Appendix B).

SPECIAL PROVISION: This material must be described "Poison-Inhalation Hazard Zone D" on shipping papers and containers must be marked per the requirements of 49 CFR 172 313.

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilation vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173 301 (b).

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## 14. TRANSPORTATION INFORMATION (Continued).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS. THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

#### 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS**: Ethylene Oxide is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

COMPONENT	SARA 302	SARA 304	SARA 313
Ethylene Oxide	YES	YES	YES

This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370 21).

SARA THRESHOLD PLANNING QUANTITY. 1000 pounds

TSCA INVENTORY STATUS Ethylene Oxide is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITY (RQ): 10 pounds

#### OTHER U.S. FEDERAL REGULATIONS:

- Ethylene Oxide, is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.
- Ethylene Oxide does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Ethylene Oxide is subject to requirements of CFR 29 1910 1000. Ethylene Oxide is listed in Table Z 1.
- Ethylene Oxide is regulated under the Ethylene Oxide Standard (29 CFR 1910 1047).
- Ethylene Oxide (also as Oxirane) is listed in 40 CFR, Part 68 (Risk Management for Chemical Release Prevention), Table 1, as an extremely hazardous and flammable substance. The threshold quantity for Ethylene Oxide under this regulation is 10,000 lbs
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Ethylene Oxide is listed in Appendix A. The threshold quantity for Ethylene Oxide, under this regulation is 5000 lbs.

**OTHER CANADIAN REGULATIONS:** Ethylene Oxide is categorized as a Controlled Product, Hazard Classes A, B1, D1A, D2A, and F, s per the Controlled Product Regulations

STATE REGULATORY INFORMATION Ethylene Oxide is covered under specific State regulations, as denoted below

Alaska - Designated Toxic and Hazardous Substances: Ethylene Oxide

California - Permissible Exposure Limits for Chemical Contaminants: Ethylene Oxide

Florida - Substance List: Ethylene Oxide
Illinois - Toxic Substance List: Ethylene
Oxide

Kansas - Section 302/313 List: Ethylene Oxide.

Michigan - Critical Materials List: Ethylene Oxide

Massachusetts - Substance List: Ethylene Oxide.

Minnesota - List of Hazardous Substances: Ethylene Oxide

Missouri - Employer Information/Toxic Substance List: Ethylene Oxide.

New Jersey - Right to Know Hazardous Substance List: Ethylene Oxide.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: Ethylene Oxide

Pennsylvania - Hazardous Substance List: Ethylene Oxide

Rhode Island - Hazardous Substance List: Ethylene Oxide.

Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List:

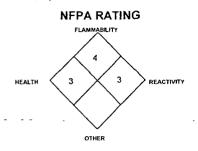
No

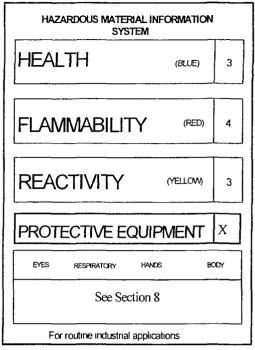
Wisconsin - Toxic and Hazardous Substances: No

**CALIFORNIA PROPOSITION 65.** Ethylene Oxide is on the California Proposition 65 lists WARNING. Ethylene Oxide is a substance known to the State of California to cause cancer, birth defects, and other reproductive harm.

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## 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone. (703) 788-2700.

P-1

"Safe Handling of Compressed Gases in Containers"

AV-1

"Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

Fax on Demand 1-800/231-1366

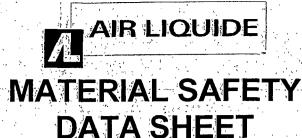


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

ETHYLENE OXIDE - C2H4O - MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

**PAGE 11 OF 11** 



Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

## 1. PRODUCT AND COMPANY INFORMATION

**CHEMICAL NAME; CLASS:** 

**CARBON MONOXIDE** 

SYNONYMS: Carbonic Oxide; Carbon Oxide.

CHEMICAL FAMILY NAME: Non-Metal Oxide Gas

FORMULA: CO

PRODUCT USE

Document Number: 20022

For general analytical/synthetic chemical uses.

AIR LIQUIE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information.1-713/896-2896 Fax on Demand: 1-800/231-1366

**CARBON MONOXIDE - CO MSDS** 

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**EFFECTIVE DATE: AUGUST 31, 2005** 

**DICE 01420** 

## 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Carbon Monoxide is a colorless, odorless, poisonous and flammable gas. Carbon Monoxide is an extremely flammable, poison gas. Carbon Monoxide is a chemical asphyxiant and may be fatal if inhaled. Exposure to Carbon Monoxide can cause nausea, dizziness, headaches, and collapse. Carbon Monoxide poses a serious fire hazard when it is accidentally released. Flame or high temperature impinging on a localized area of the cylinder of Carbon Monoxide can cause the cylinder to explode without activating the cylinder's relief devices. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE. The most significant route of over-exposure for Carbon Monoxide is by inhalation.

**INHALATION**: Carbon monoxide is classified as a chemical asphyxiant, producing a toxic action by combining with the hemoglobin of the blood and replacing the available oxygen. Through this replacement, the body is deprived of the required oxygen, and asphyxiation occurs

Since the affinity of carbon monoxide for hemoglobin is about 200-300 times that of oxygen, only a small amount of Carbon Monoxide will cause a toxic reaction to occur. Carbon Monoxide exposures in excess of 50 ppm will produce symptoms of poisoning if breathed for a sufficiently long time. Other effects of exposure can be summarized as follows:

#### CONCENTRATION OF GAS OBSERVED EFFECT

All exposure levels: Over-exposure to Carbon Monoxide can be indicated by the lips and fingernails

turning bright red

200 ppm Slight symptoms (headache, discomfort) after several hours of exposure.

400 ppm: Headache and discomfort experienced within 2-3 hours of exposure.

1,000 -2000 ppm. Within 30 minutes, slight palpitations of the heart occur Within 1.5 hours, there is a

tendency to stagger. Within 2 hours, there is mental confusion, headache, and

nausea.

2000-2500 ppm: Unconsciousness within 30 minutes.

>2500 ppm: Potential for collapse and death before warning symptoms are produced.

NOTE At high altitudes, individuals may be more susceptible to Carbon Monoxide over-exposures. Development of symptoms may also occur more rapidly if individuals are doing physically demanding tasks. Individuals who have heart conditions may experience a more rapid onset of symptoms. During recovery, victims can experience headaches, vision problems, and memory loss.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms Over-exposure to Carbon Monoxide may cause the following health effects.

ACUTE Carbon Monoxide is a toxic gas. Symptoms of Carbon Monoxide poisoning can develop gradually, or can arise suddenly, depending on the concentration and duration of exposure. Lips and fingernails will turn bright red, which is a significant sign of Carbon Monoxide over-exposure. Other symptoms of over-exposure can include headache, shortness of breath, wheezing, dizziness, indigestion, and nausea. At high concentrations unconsciousness or death may occur. Symptoms can include blurred vision and memory loss

**CHRONIC**: Clinical studies indicate that there is a relationship between exposure to Carbon Monoxide in specific occupations (i.e., fire-fighters, foundry workers) and an increased incidence of cardiovascular problems. Carbon Monoxide is a reproductive toxin. Refer to Section 11 of this MSDS for further information.

TARGET ORGANS. Respiratory system, circulatory system, cardiovascular system, reproductive system.

**CARBON MONOXIDE - CO MSDS** 

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## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH-TLV		OSHA-PEL			OTHER
	]		TWA	STEL	TWA	STEL	IDLH	
			ppm	ppm	ppm	ppm	ppm	ppm
Carbon Monoxide	630-08-0	> 99 0%	25	NE	50 35 (Vacated 1989 PEL)	200 ceiling (Vacated 1989 PEL)	1200	NIOSH REL. TWA = 35 STEL = 200 ceiling DFG MAKs TWA = 30 PEAK = 2•MAK, 30 min , average value DFG MAK Pregnancy Risk Classification. B
Maximum Impunties < 1.0%			None of the trace impunties in this product contribute significantly to the hazard associated with the product. All hazard information pertinent to Carbon Monoxide has been provided in this Material Safety Data Sheet, per the requirements of the OSH. Hazard Communication Standard (29 CFR 1910 1200) and State equivalents standards				to Carbon Monoxide has equirements of the OSHA	

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

See Section 16 for Definitions of Terms Used

NOTE (1). ALL WHMIS required information is included in appropriate sections based on the ANSI Z400 1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO CARBON MONOXIDE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant equipment should be worn. Adequate fire protection must be provided during rescue situations. Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take copy of label and MSDS to physician or other health professional with victim(s) Remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**. Pre-existing respiratory conditions may be aggravated by over-exposure to Carbon Monoxide. Carbon Monoxide can aggravate some diseases of the cardiovascular system such as coronary artery disease and angina pectoris.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure. Provide oxygen. Hyperbaric oxygen is the most efficient antidote to Carbon Monoxide poisoning, with the optimum range being 2-2.5 atm. A special mask, or preferably, a compression chamber to utilize oxygen at these pressures is required. Avoid administering stimulant drugs

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT:: Not applicable. Flammable gas. AUTOIGNITION TEMPERATURE 607°C (1125°F) FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL) 12.5% Upper (UEL): 74.2%

**FIRE EXTINGUISHING MATERIALS:** Extinguish fires of this gas by shutting-off the source of the gas Use water spray to cool fire-exposed structures and equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** An extreme explosion hazard exists in areas in which the gas has been released but the material has not yet ignited. Carbon Monoxide decomposes to carbon and carbon dioxide between 400-700°C

**DANGER!** Fires impinging (direct flame) on the outside surface of unprotected cylinders of Carbon Monoxide can be very dangerous. Exposure to fire could cause a catastrophic failure of the cylinder releasing the contents into a fireball and explosion of released gas. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinder. For massive fires in large areas, use unmanned hose holder or monitor nozzles, if this is not possible, withdraw from area and allow fire to burn.

**CARBON MONOXIDE - CO MSDS** 

**EFFECTIVE DATE: AUGUST 31, 2005** 

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## 5. FIRE-FIGHTING MEASURES (Continued)

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge Static discharge may cause this gas to ignite explosively, upon a release of this gas. Due to low electrical conductivity, this substance can generate electrostatic charges during handling operations

**SPECIAL FIRE-FIGHTING PROCEDURES**: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. If water is not available for cooling or protection of cylinder exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #115) recommends 0.5 miles.

## 6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE. Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Eliminate any possible sources of ignition and provide maximum explosion-proof ventilation. If the gas is leaking from a cylinder or valve, contact the supplier. Adequate fire protection must be provided. Use only non-sparking tools and equipment during the response. Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Locate and seal the source of the leaking gas. Protect personnel attempting the shut off with water-spray. Allow the gas to dissipate. Monitor the surrounding area for Carbon Monoxide levels. Colorimetric tubes can be used to detect the presence of Carbon Monoxide. The level of Carbon Monoxide must be at acceptable levels (see Section 2, Composition on Information and Ingredients) before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Combustible gas concentration must be below 10% of the LEL (12.5%) prior to entry. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in place or remove the cylinder to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE, POISON GAS. Protection of all personnel and the area must be maintained.

## 7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, exposures to fatal concentrations of Carbon Monoxide could occur without any significant warning symptoms. Non-sparking tools should be used. Do not attempt to repair, adjust, or in any other way modify the cylinders containing Carbon Monoxide. If there is a malfunction or another type of operational problem, contact nearest distributor immediately

STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over Cylinders can be stored in the open, but in such cases should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight Keep storage area clear of materials that can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, elevators, building and room exits, or main aisles leading to exits. Protect cylinders against physical damage.

Cylinders should be separated from oxygen cylinders or other oxidizers by a minimum distance of 20 ft or by a barrier of non-combustible material at least 5 ft high, having a fire-resistance rating of at least 0.5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity)

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Post "No Smoking or Open Flames" signs in storage or use areas. Consider installation of leak detection and alarm for storage and use areas. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers).

Keep the smallest amount necessary on-site at any one-time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS**: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand truck. Do not drag, slide, or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in place until cylinder is ready for use

CARBON MONOXIDE - CO MSDS

## 7, HANDLING AND STORAGE (Continued)

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not use oils or grease on gashandling fittings or equipment. Do not "crack" valve open before connecting it since self-ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove overly tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close main cylinder valve Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

**NOTE:** Use only DOT or ASME code containers designed for flammable gas storage. Earth-ground and bond all lines and equipment associated with Carbon Monoxide. Close valve after each use and when empty

**STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:** Use the proper connections; <u>DO NOT USE</u> ADAPTERS.

THREADED: 0-3000 PSIG - CGA 350 PIN-INDEXED YOKE Not Applicable ULTRA HIGH INTEGRITY. 724

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely Purge gas handling equipment with inert gas (e.g., nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**. Carbon Monoxide detectors should be installed in or near areas where Carbon Monoxide is being used or stored (if appropriate, install automatic monitoring equipment to detect the level of oxygen and the presence of potentially explosive air-gas mixtures). Use with adequate ventilation.

Provide natural or explosion-proof ventilation adequate to ensure Carbon Monoxide does not reach its lower flammability limit of 12.5%. Local exhaust ventilation is preferred because it prevents gas dispersion into the work place by eliminating it at its source.

RESPIRATORY PROTECTION: Maintain Carbon Monoxide levels below the TLV (see Section 2, Composition and Information on Ingredients) Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent U.S. State standards, and Canadian CSA Standard Z94.4-93. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). The following are NIOSH recommendations for Carbon Monoxide concentrations in air

CONCENTRATIONRESPIRATORY EQUIPMENTUp to 350 ppmSupplied Air Respirator (SAR)

Up to 875 ppm SAR operated in a continuous flow mode

Up to 1200 ppm Gas mask with canister to protect against carbon monoxide or full-facepiece Self-Contained

Breathing Apparatus (SCBA) or full-facepiece SAR.

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive pressure, full-facepiece

SCBA or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA

Escape Gas mask with canister to protect against carbon monoxide or escape-type SCBA.

NOTE: End of Service Life Indicator (ESLI) required for gas masks

The IDLH concentration for Carbon Monoxide is 1200 ppm

EYE PROTECTION Safety glasses.

HAND PROTECTION Note: Carbon Monoxide is mildly corrosive to nickel and iron. Natural rubber and neoprene are attacked by Carbon Monoxide. Wear gloves when handling cylinders of Carbon Monoxide

**BODY PROTECTION**: Use body protection appropriate for task. Safety shoes are recommended when handling cylinders. Fire retardant clothing may be appropriate under some circumstances of use

**CARBON MONOXIDE - CO MSDS** 

**EFFECTIVE DATE: AUGUST 31, 2005** 

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## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0 0725 lb/ft<sup>3</sup> (1 161 kg/m<sup>3</sup>).

BOILING POINT @ 1 atm: -191.5°C (-312.7°F)

FREEZING/MELTING POINT @ 1 atm: -207°C (-340 6°F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F) and 1 atm: 0 9676

SOLUBILITY IN WATER vol/vol @ 0°C (32°F): 0 035

EVAPORATION RATE (nBuAc = 1): Not applicable

ODOR THRESHOLD. Not applicable.

VAPOR PRESSURE @21.1°C (70°F) psig Gas, ambient

COEFFICIENT WATER/OIL DISTRIBUTION Not applicable.

APPEARANCE AND COLOR: Colorless, odorless gas.

**HOW TO DETECT THIS SUBSTANCE (warning properties):** There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation

## 10. STABILITY and REACTIVITY

STABILITY: Stable.

**DECOMPOSITION PRODUCTS**: Carbon Monoxide burns to form carbon and carbon dioxide between 400-700°C. **MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE**: Strong oxidizers (i.e. chlorine, bromine, pentafluoride, oxygen, oxygen diffuoride, and nitrogen trifluoride) Carbon Monoxide is mildly corrosive to nickel and iron (especially at high temperatures and pressures). Natural rubber and neoprene are attacked by Carbon Monoxide. Carbon Monoxide is also incompatible with the following substances metal oxides, nickel, iron, chromium, alkali and alkaline earth metals, aluminum powder, iodine heptafluoride, sulfur, bromine, bromine trifluoride, bromine pentafluoride, chlorine dioxide, and peroxodisulfuryl difluonde

HAZARDOUS POLYMERIZATION Will not occur.

**CONDITIONS TO AVOID.** Contact with incompatible materials and exposure to heat, sparks, and other sources of ignition. If the cylinders are exposed to extremely high temperatures, these cylinders can rupture or burst.

#### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicity data are available for Carbon Monoxide.

TCLo (inhalation, mouse) = 65 ppm/24 hours (7-18 preg): reproductive effects

TCLo (inhalation, mouse) = 8 pph/1 hour (female 8D post) teratogenic effects

TCLo (inhalation, human) = 600 mg/m³/10 minutes

LCLo (inhalation, man) = 4000 ppm/30 minutes

TCLo (inhalation, man) = 650 ppm/45 minutes central nervous system and blood system effects

LCLo (inhalation, human) = 5000 ppm/5 minutes

LCLo (inhalation, dog) = 4000 ppm/46 minutes

LCLo (inhalation, rabbit) = 4000 ppm LC50 (inhalation, guinea pig) = 5718

pH Not applicable.

**MOLECULAR WEIGHT: 28.01** 

**EXPANSION RATIO** Not applicable

SPECIFIC VOLUME (ft<sup>3</sup>/lb): 13.8

ppm/4 hours LCLo (inhalation, mammal) = 5000 ppm/5 minutes

LD50 (inhalation, wild bird) = 1334 ppm

**SUSPECTED CANCER AGENT**. Carbon Monoxide is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC and therefore is neither considered to be nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Contact with rapidly expanding gases can be irritating to exposed skin and eyes.

SENSITIZATION TO THE PRODUCT Carbon Monoxide is not a skin or respiratory sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION** Listed below is information concerning the effects of Carbon Monoxide on the human reproductive system.

<u>Mutagenicity</u>: Carbon Monoxide is not expected to cause mutagenic effects in humans. In one available animal study, Carbon Monoxide increased chromosomal damage in the blood of mice.

Embryotoxicity. Carbon Monoxide has not been reported to cause embryotoxic effects

<u>Teratogenicity</u>: Carbon Monoxide can cause teratogenic effects in humans Severe exposure to Carbon Monoxide during pregnancy has caused adverse effects and the death of the fetus. In general, maternal symptoms are an indicator of the potential risk to the fetus since Carbon Monoxide is toxic to the mother before it is toxic to the fetus.

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## 11. TOXICOLOGICAL INFORMATION (Continued)

Reproductive Toxicity: Carbon Monoxide is not expected to cause adverse reproductive effects in humans.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i e within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process

BIOLOGICAL EXPOSURE INDICES (BEIs): Biological Exposure Indices (BEIs) are applicable for Carbon Monoxide, as follows:

CHEMICAL DETERMINANT	SAMPLING TIME	BEI		
CARBON MONOXIDE				
Carboxyhemoglobin in blood	End of shift	• 3.5% of hemoglobin		
Carbon monoxide in end-exhaled air	End of shift	• 20 ppm		

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL STABILITY**. Carbon Monoxide occurs naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS** Carbon Monoxide can be deadly to exposed animal life, producing symptoms similar to those experienced by humans This gas may also be harmful to plant life

**EFFECT OF CHEMICAL ON AQUATIC LIFE** No evidence is currently available regarding Carbon Monoxide's effects on aquatic life

#### 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

#### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME

Carbon monoxide, compressed

HAZARD CLASS NUMBER and DESCRIPTION

2 3 (Poison Gas)

**UN IDENTIFICATION NUMBER** 

UN 1016

PACKING GROUP.

Not applicable

DOT LABEL(S) REQUIRED:

Poison Gas, Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000) 119

**SPECIAL PROVISION**: Carbon Monoxide is poisonous by inhalation. Shipments must be properly described as inhalation hazards. ZONE D.

MARINE POLLUTANT Carbon Monoxide is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owner's consent is a violation of Federal law (49 CFR, Part 173.301 (b)

**TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:** This material is considered as dangerous goods, per regulations of Transport Canada Use the above information for the preparation of Canadian Shipments

**CARBON MONOXIDE - CO MSDS** 

## 15. REGULATORY INFORMATION

#### ADDITIONAL UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS**. Carbon Monoxide is not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA Threshold Planning Quantity. Not applicable

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

CANADIAN DSL INVENTORY STATUS: Carbon Monoxide is listed on the DSL Inventory.

U.S. TSCA INVENTORY STATUS: Carbon Monoxide is listed on the TSCA Inventory

#### OTHER U.S. FEDERAL REGULATIONS.

- Carbon Monoxide is subject to the requirements of CFR 29 1910 1000 Carbon Monoxide is listed on Table Z 1.
- Carbon Monoxide does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82)
- Depending on specific operations involving the use of Carbon Monoxide, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Carbon Monoxide is not listed in Appendix A of this regulation, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a fuel.
- Carbon Monoxide is listed under Table 3 as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Releases as a flammable substance

**U.S. STATE REGULATORY INFORMATION**: Carbon Monoxide is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Carbon Monoxide

California - Permissible Exposure Limits for Chemical Contaminants: Carbon Monoxide

Florida - Substance List: Carbon Monoxide Illinois - Toxic Substance List: Carbon Monoxide

Kansas - Section 302/313 List: None Michigan - Critical Materials Register: No. Massachusetts - Substance List: Carbon Monoxide.

Minnesota - List of Hazardous Substances: Carbon Monoxide

Missouri - Employer Information/Toxic Substance List: Carbon Monoxide

New Jersey - Right to Know Hazardous Substance List: Carbon Monoxide North Dakota - List of Hazardous

North Dakota - List of Hazardou Chemicals, Reportable Quantities: No Pennsylvania - Hazardous Substance List: Carbon Monoxide

Rhode Island - Hazardous Substance List: Carbon Monoxide

Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: None

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Carbon Monoxide is on the California Proposition 65 lists WARNING. Carbon Monoxide is a chemical known to the State of California to cause birth defects or other reproductive harm

#### **ADDITIONAL CANADIAN REGULATIONS:**

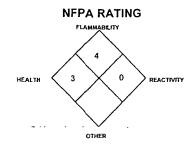
CANADIAN DSL/NDSL INVENTORY STATUS: Carbon Monoxide is on the DSL Inventory.

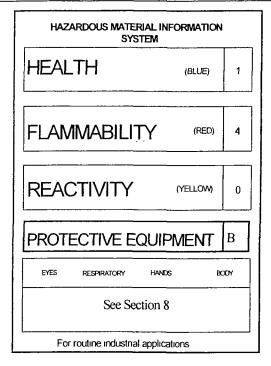
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: Carbon Monoxide is not on the CEPA Priorities Substances Lists.

**CANADIAN WHMIS REGULATIONS:** Carbon Monoxide is categorized as a Controlled Product, Hazard Classes A, B1, D1A, and D2A as per the Controlled Product Regulations.

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## 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

Further information on Carbon Monoxide can be found in the following pamphlets published by: Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone (703) 788-2700.

P-1

"Safe Handling of Compressed Gases in Containers"

SB-2

"Oxygen Deficient Atmospheres"

AV-1

"Safe Handling and Storage of Compressed Gases"

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002

858/565-0302

Fax on Demand:

1-800/231-1366



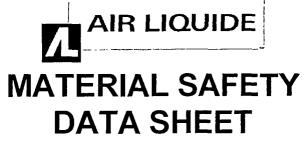
This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to Carbon Monoxide. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Carbon Monoxide is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

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Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS. Standards

## 1. PRODUCT AND COMPANY INFORMATION.

## CHEMICAL NAME; CLASS:

## **CARBON DIOXIDE**

SYNONYMS: Carbon Anhydride; Carbonic Acid Gas; Carbonic Anhydride; Carbon Dioxide USP;

Carbon Dioxide, Refrigerated Liquid; Dry Ice CHEMICAL FAMILY NAME: Acid Anhydride

FORMULA: CO2

PRODUCT USE:

Document Number: 10040

For carbonation, chilling and freezing, medical,

inerting, pH control, fire protection, and

general analytical/synthetic

chemical uses



MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive

Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information 1-713/896-2896

Fax on Demand:

1-800/231-1366

CARBON DIOXIDE - CO2 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

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#### 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW Carbon Dioxide is a colorless, odorless gas, or a colorless, odorless liquid in a high-pressure container. Over-exposure to Carbon Dioxide can increase respiration and heart rate, possibly resulting in circulatory insufficiency, which may lead to come and death. At concentrations between 2 and 10%, Carbon Dioxide can cause nausea, dizziness, headache, mental confusion, increased blood pressure and respiratory rate. Exposure to Carbon Dioxide can also cause asphyxiation, through displacement of oxygen. If the gas concentration reaches 10% or more, suffocation can occur within minutes. The liquid will rapidly boil to the gas at standard temperatures and pressures. Contact with the cold gas can cause freezing of exposed tissue. Moisture in the air could lead to the formation of carbonic acid which can be irritating to the eyes. All forms of Carbon Dioxide are non-combustible.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE.** The most significant routes of over-exposure for this gas are by inhalation, and skin or eye contact. Symptoms of such exposure are as follows:

**INHALATION** Carbon Dioxide is an asphyxiant and a powerful cerebral vasodilator. If the concentration of Carbon Dioxide reaches 10% or more, suffocation can occur within minutes. At concentrations between 2 and 10%, Carbon Dioxide can cause nausea, dizziness, headache, mental confusion, increased blood pressure and respiratory rate. Carbon Dioxide initially stimulates respiration and then causes respiratory depression. High concentrations result in narcosis. Repeated inhalation of low concentrations (3-5%) have no known permanent harmful effects. Symptoms in humans are as follows:

- J.1.14.1.1.	
CONCENTRATION	<u>EFFECT</u>
1%	Slight increase in breathing rate
2%	Breathing rate increases to 50% above normal level. Prolonged exposure can cause headache, tiredness.
3%	Breathing increases to twice normal rate and becomes labored. Weak narcotic effect impaired hearing, headache, increase in blood pressure and pulse rate.
4-5%	Breathing increases to approximately four times normal rate, symptoms of intoxication become evident and slight choking may be felt
5-10%	Characteristic sharp odor noticeable Very labored breathing, headache, visual impairment and ringing in the ears. Judgment may be impaired, followed within minutes by loss of consciousness.
50-100%	Unconsciousness occurs more rapidly above 10% level Prolonged exposure to high concentrations may eventually result in death from asphyxiation

High concentrations of this gas can also cause an oxygen-deficient environment. However, the asphyxiating properties of Carbon Dioxide will be reached before oxygen-deficiency is a factor

CONTACT WITH SKIN or EYES: Contact of the cold gas with the skin can lead to frostbite or dermatitis (red, cracked, irritated skin), depending upon concentration and duration of exposure. Contact of the cold gas, or solid dry ice with the eyes can cause pain, redness, burns, and severe exposure could cause blindness

**OTHER POTENTIAL HEALTH EFFECTS**. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact with cold gas can quickly subside. Moisture in the air could lead to the formation of carbonic acid, which can be irritating to the eyes.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms** Over-exposure to Carbon Dioxide may cause the following health effects

ACUTE Carbon Dioxide is an asphyxiant and a powerful cerebral vasodilator. Inhaling large quantities causes rapid circulatory insufficiency, which can lead to coma or death. At low concentrations, inhalation of Carbon Dioxide can cause nausea, dizziness, visual disturbances, shaking, headache, mental confusion, sweating, increased heartbeat, and elevated blood pressure and respiratory rate. High concentrations of the gas in air may cause eye irritation. Contact with the eyes can cause damage to the retinal ganglion cells

CHRONIC. There are currently no known adverse health effects associated with chronic exposure to this gas.

TARGET ORGANS ACUTE: Respiratory system, central nervous system, eyes CHRONIC: None known.

CARBON DIOXIDE - CO2 MSDS

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## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR					
Į.		}	ACGIH-TLV		OSHA-PEL		NIOSH	OTHER
		•	TWA	STEL	TWA	STEL	IDLH	
Ĺ			ppm	ppm	ppm	ppm	ppm	ppm
Carbon Dioxide	124-38-9	> 99 5%	5000	30,000	5000	30,000	40,000	NIOSH REL.
		-	-		10,000 (Vacated 1989 PEL)	(Vacated 1989 PEL)		TWA = 5000 STEL = 30,000 (ceiling) DFG-MAK TWA = 5000 PEAK = 2•MAK, 60 min momentary value
Maximum Impunties < 0 5%			None of the trace impurities in this product contribute significantly to the hazards associated with the product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910 1200), U.S. State equivalent Standards and Canadian Workplace Hazardous Materials Identification System Standards (CPR 4)					

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established

See Section 16 for Definitions of Terms Used

NOTE (1) ALL WHMIS required information is included in appropriate sections based on the ANSI Z400 1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus equipment should be worn.

Remove victim(s) to fresh air, as quickly as possible Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

**SKIN EXPOSURE:** Remove any clothing that may restrict circulation to any frozen area. Do not rub frozen parts as tissue damage may occur. As soon as practicable, place any affected area in warm water bath which has a temperature that does not exceed 105°F (40°C). NEVER USE HOT WATER NEVER USE DRY HEAT. If area of frostbite is extensive, remove clothing while showering with warm water. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention

Frozen tissue is painless and appears waxy, with a possible yellow color Frozen tissue will become swollen, painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering

**EYE EXPOSURE**. If irritation of the eye develops after exposure to gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Pre-existing respiratory conditions may be aggravated by over-exposure to this product.

RECOMMENDATIONS TO PHYSICIANS Treat symptoms and reduce over-exposure.

CARBON DIOXIDE - CO2 MSDS

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## 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

**AUTOIGNITION TEMPERATURE**: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL) Not applicable Upper (UEL). Not applicable

**FIRE EXTINGUISHING MATERIALS** Carbon Dioxide is commonly used as an extinguishing agent for Class B and Class C fires. Use extinguishing media appropriate for the surrounding fire

UNUSUAL FIRE AND EXPLOSION HAZARDS Carbon Dioxide does not burn, however, containers, when involved in fire, may rupture or burst in the heat of the fire. Dusts of various reactive metals (e.g., magnesium, zircon, titanium alloys), are readily ignited and explode in the presence of Carbon Dioxide. In the presence of moisture, cesium oxide ignites on contact with Carbon Dioxide. Metal acetylides or hydrides will also ignite or explode

Liquid Carbon Dioxide will vaporize rapidly when accidentally released, forming an oxygen-deficient vapor cloud. Additionally, if large concentrations of Carbon Dioxide gas are present, the water vapor in the surrounding air will condense, creating a dense fog. Evacuate the surrounding area; visibility may be obscured in such a vapor cloud making it difficult to find fire exits or equipment. Pressure in a high pressure container can build-up due to heat and it may rupture if pressure relief devices should fail to function. Contact with cold, gaseous or solid Carbon Dioxide may cause frostbite.

Explosion Sensitivity to Mechanical Impact Not sensitive Explosion Sensitivity to Static Discharge: Not sensitive

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment

## 6. ACCIDENTAL RELEASE MEASURES

**LEAK RESPONSE**: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

Minimum Personal Protective Equipment should be Level B: protective clothing, leather or thermally insulating gloves and Self-Contained Breathing Apparatus. Locate and seal the source of the leaking gas. Allow the gas to dissipate. Monitor the surrounding area for Carbon Dioxide and oxygen levels. The level of Carbon Dioxide must be below 3%, and the atmosphere must have at least 19 5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus

**RESPONSE TO PRESSURIZED-LIQUID RELEASE:** Clear the affected area. After the gas is formed, follow the instructions provided above. If the area must be entered by emergency personnel, SCBA, leather or insulated gloves, an safety shoes must be worn

#### 7. HANDLING AND STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES** Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms

STORAGE AND HANDLING PRACTICES. Cylinders should be stored upnght and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Isolate from other non-compatible chemicals (refer to Section 10, Stability and Reactivity).

Storage containers and equipment should not be located in sub-surface or enclosed areas, unless engineered to maintain a concentration of Carbon Dioxide below the TLV (TLV = 5000 ppm) in the event of a release Relief valves should be vented to a well-ventilated external location. Consider installation of leak detection and alarm for storage and use areas Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers).

Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders (continued on following page)

Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time

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SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used

## 7. HANDLING AND STORAGE (Continued)

**Before Use:** Move cylinders with a suitable hand-truck Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gashandling fittings or equipment. Leak-check system with leak detection solution. Immediately contact the supplier if there are any difficulties associated with operating cylinder-valve. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage the valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

After Use: Close main cylinder valve Replace valve protection cap. Mark empty cylinders "EMPTY"

SPECIAL PRECAUTIONS FOR HANDLING PRESSURIZED CONTAINERS OF LIQUID CARBON DIOXIDE: Cold liquids can present significant safety hazards. Never allow any unprotected part of the body to touch uninsulated pipes or vessels which contain cold fluids. The extremely cold metal of the container will cause moist flesh to stick fast and tear when one attempts to withdraw from it. The following rules are applicable to work situations in which liquid containers are being used. Check all hoses and transfer equipment before filing them with the liquid. Replace any worn or cut hoses prior to use. Liquid Carbon Dioxide is extremely cold and is under pressure. A leak will result in the formation of "Dry Ice" particles which will be forcibly ejected from the system, possibly injuring the operator. A complete hose failure can result in a large release of Carbon Dioxide and violent movement of the hose and associated equipment, which may cause severe injury or death. Special care must be taken when depressurizing and disconnecting hoses. Releasing the contents of a liquid-filled line to atmospheric pressure may result in the formation of a solid dry ice plug in the line. This plug will prevent further removal of the liquid behind the plug, resulting in either an unexpected, rapid release of Carbon Dioxide as the line warms, or the catastrophic failure of the line as the liquid warms behind the plug. Sufficient vapor pressure must be applied and maintained behind the liquid before opening a discharge valve. This action will prevent the depressurization of the liquid to the point of solid formation before it exits the line.

High-pressure containers for liquid product are equipped with pressure relief devices to control internal pressure. Under normal conditions, these containers will periodically vent small amounts of product. Some metals such as carbon steel may become brittle at low temperatures and will easily fracture. Prevent entrapment of liquid in closed systems or piping without pressure relief devices.

NOTE: Use only DOT or ASME-approved code containers. Close valve after each use and when empty.

STANDARD CYLINDER VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, DO NOT USE ADAPTERS.

THREADED:

**CGA 320** 

PIN-INDEXED YOKE

CGA 940 (Medical Use)

**ULTRA HIGH INTEGRITY:** 

716

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT. Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS**: Use with adequate ventilation. Carbon Dioxide accumulates in low-lying areas with limited air movement. Natural or mechanical ventilation should be available in the worker's breathing zone to prevent levels of Carbon Dioxide above exposure limits (see Section 2, Composition and Information on Ingredients) Local exhaust ventilation is preferred, because it prevents dispersion of this gas into the work place by eliminating it at its source. Areas of Carbon Dioxide use should be engineered to remove vapor from the lowest possible level and exhaust vapor to a well-ventilated area or to the outside Carbon Dioxide levels should be monitored to assure levels are maintained below the TLV If appropriate, install automatic monitoring equipment to detect the levels of Carbon Dioxide and of oxygen.

RESPIRATORY PROTECTION: Maintain Carbon Dioxide levels below those listed in Section 2 (Composition and Information on Ingredients) and oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if Carbon Dioxide levels are above the IDLH (40,000 ppm) or during emergency response to a release of this product. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29)

CARBON DIOXIDE - CO2 MSDS

CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a ... full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHAs Respiratory

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

Protection Standard (1910.134-1998). Respiratory selection guidelines from NIOSH for Carbon Dioxide are provided below for information

CONCENTRATION

RESPIRATORY EQUIPMENT

Up to 40,000 ppm.

Supplied Air Respirator (SAR); or full-facepiece Self-Contained Breathing Apparatus

(SCBA).

Emergency or Planned Entry Into Unknown Concentrations or IDLH Conditions: Positive pressure, full-facepiece

SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Escape.

Escape-type SCBA

NOTE:

The IDLH concentration for Carbon Dioxide is 40,000 ppm.

EYE PROTECTION Safety glasses. Use faceshields when handling Liquid Carbon Dioxide in high pressure containers. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or Canadian Standards

HAND PROTECTION: Wear leather or thermally insulated gloves when handling cylinders of this product Otherwise, wear glove protection appropriate to the specific operation for which this product is used. If necessary, refer to U.S. OSHA 29 CFR 1910 138 or appropriate Standards of Canada

BODY PROTECTION. Use body protection appropriate for task. Safety shoes are recommended when handling cylinders. When handling the liquid in high pressure containers, long sleeve shirts and trousers are recommended If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA

HEARING PROTECTION: Discharges of Liquid Carbon Dioxide and of the vapor can produce noise levels requiring hearing protection

## 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.1144 lb/ft<sup>3</sup> (1 833 kg/m<sup>3</sup>)

LIQUID DENSITY @ 21.1°C (70°F) and 838 psig (5778 kPa): 47 35 lb/ft<sup>3</sup> (761.3 kg/m<sup>3</sup>)

FREEZING/MELTING POINT: (sublimation temperature) -78 5°C (-109 3°F)

**TRIPLE POINT:** -55.6°C (-69 9°F) @ 60 4 psig (416 kPa)

SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 1 522

**ODOR THRESHOLD**: Odorless.

EVAPORATION RATE (nBuAc = 1): Not applicable

**VAPOR PRESSURE @ 21.1°C (70°F) psig** 838 psig (5778 kPa) **SUBLIMATION POINT** -78.5°C (-109.3°F)

SOLUBILITY IN WATER vol/vol 20°C (68°F) and 1 atm: 0.90 **COEFFICIENT WATER/OIL DISTRIBUTION** Not applicable

APPEARANCE AND COLOR This product is a colorless, odorless gas, or colorless, odorless, volatile liquid stored under high pressure As this gas is slightly acidic, some individuals may notice a slightly pungent odor and biting

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no unusual warning properties associated with a release of this product, except the potential of a vapor cloud in the event of a large release.

#### 10. STABILITY and REACTIVITY

STABILITY. Normally stable

DECOMPOSITION PRODUCTS: Carbon Dioxide will produce Carbon Monoxide and Oxygen when heated to temperatures above 3000°F (1648°C).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Carbon Dioxide will ignite and explode when heated with powdered aluminum, beryllium, cerium alloys, chromium, magnesium-aluminum alloys, manganese, thorium, titanium, and zirconium. In the presence of moisture, Carbon Dioxide will ignite with cesium oxide Metal acetylides will also ignite and explode on contact with Carbon Dioxide Carbon Dioxide will react with alkaline materials to form carbonates and bicarbonates.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID Avoid exposing cylinders or bulk storage containers of Carbon Dioxide to extremely high temperatures, which could cause the cylinders or storage containers to rupture or burst

CARBON DIOXIDE - CO2 MSDS

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**pH**: 3.7 at 1 atm (form carbonic acid) **MOLECULAR WEIGHT: 44 01** 

**EXPANSION RATIO** Not applicable

SPECIFIC VOLUME (ft<sup>3</sup>/lb). 8 76

## 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA**: Carbon Dioxide gas is an asphyxiant gas, which has physiological effects at high concentrations. High concentrations can also result in narcosis. The following toxicological information is available for Carbon Dioxide.

LCLo (Inhalation-Human) 9 pph/5 minutes LCLo (Inhalation-Mammal-species unspecified) 90000 ppm/5 minutes

TCLo (Inhalation-Rat) 10000 ppm/24 hours/days-continuous Blood other changes

TCLo (Inhalation-Rat) 6 pph/24 hours female 10 day(s) after conception Reproductive Specific Developmental Abnormalities musculoskeletal system, cardiovascular (circulatory) system, respiratory system

TCLo (Inhalation-Rabbit) 27,000 ppm/24 hours/30 days-continuous Behavioral somnolence (general depressed activity) TCLo (Inhalation-Rat) 6 pph/24 hours female 10 day(s) after conception Reproductive Effects on Newborn growth statistics (e.g. %, reduced weight gain)

TCLo (Inhalation-Rabbit) 13 pph/4 hours female 9-12 day(s) after conception Reproductive Specific Developmental Abnormalities musculoskeletal system

TCLo (Inhalation-Mouse) 55 pph/2 hours. male 3 day(s) pre-mating. Reproductive Paternal Effects. spermatogenesis (incl genetic material, sperm morphology, motility, and count) TCLo (Inhalation-Mouse) 55 pph/4 hours.
male 6 day(s) pre-mating Reproductive
Fertility male fertility index (e.g. # males
impregnating females per # males
exposed to fertile nonpregnant females)

TCLo (Inhalation-Mouse) 2 pph/8 hours female 10 day(s) after conception Reproductive Fertility post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants), Specific Developmental Abnormalities. musculoskeletal system

SUSPECTED CANCER AGENT: Carbon Dioxide is not found on the following lists FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**. Contact with rapidly expanding gases can cause frostbite and damage to exposed skin and eyes.

SENSITIZATION OF PRODUCT: Carbon Dioxide is not a skin or respiratory sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION**: Listed below is information concerning the effects of Carbon Dioxide on the human reproductive system.

Mutagenicity. This product is not expected to cause mutagenic effects in humans

Embryotoxcity This product has not been reported to cause embryotoxic effects.

<u>Teratogenicity</u> This product is not expected to cause teratogenic effects in humans. Clinical studies involving test animals exposed to high concentrations of Carbon Dioxide indicate teratogenic effects.

Reproductive Toxicity This product is not expected to cause adverse reproductive effects in humans. Clinical studies involving test animals exposed to high concentrations of Carbon Dioxide indicate reproductive effects.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES (BEIs). Currently, Biological Exposure Indices (BEIs) have not been determined for this compound.

#### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL STABILITY**: Carbon Dioxide occurs naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No adverse effect is anticipated to occur to animal or plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on this product's effects on aquatic life.

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide Do not dispose of locally.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors

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## 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

FOR GAS

FOR LIQUID

PROPER SHIPPING NAME:

Carbon dioxide

Carbon Dioxide, refrigerated

liquid

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas) 2 2 (Non-Flammable Gas)

**UN IDENTIFICATION NUMBER:** 

UN 1013

UN 2187

PACKING GROUP:

Not applicable.

DOT LABEL(S) REQUIRED

Not applicable.

Non-Flammable Gas

Non-Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (20006). 120..........

MARINE POLLUTANT: Carbon Dioxide is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172 101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This material is considered as dangerous goods, per regulations of Transport Canada. Use the above U.S. DOT information for the preparation of Canadian Shipments.

## 15. REGULATORY INFORMATION

#### ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: Carbon Dioxide is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for any component of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) therefore applies, per 40 CFR 370 20.

U.S. TSCA INVENTORY STATUS. Carbon Dioxide is listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

#### OTHER U.S. FEDERAL REGULATIONS:

- Generally recognized as safe (GRAS) as a direct human food ingredient when used as a leavening agent, processing aid, propellant, aerating agent and gas.
- Carbon Dioxide USP is regulated by the FDA as a prescription drug
- Carbon Dioxide is subject to the reporting requirements of CFR 29 1910.1000 Carbon Dioxide is listed on Table
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119) Under this regulation Carbon Dioxide is not listed in Appendix A.
- Carbon Dioxide does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Carbon Dioxide is not listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical

U.S. STATE REGULATORY INFORMATION Carbon Dioxide is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Carbon Dioxide.

California - Permissible Exposure Limits for Chemical Contaminants: Carbon Dioxide

Florida - Substance List: Carbon Dioxide. Illinois - Toxic Substance List: Carbon Dioxide

Kansas - Section 302/313 List: No

Massachusetts - Substance List: Carbon

Michigan - Critical Materials List: No Minnesota - List of Hazardous Substances: Carbon Dioxide

Missouri - Employer Information/Toxic Substance List: Carbon Dioxide New Jersey - Right to Know Hazardous

Substance List: Carbon Dioxide North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Carbon Dioxide

Rhode Island - Hazardous Substance List: Carbon Dioxide

Texas - Hazardous Substance List: No. West Virginia - Hazardous Substance List: Carbon Dioxide

Wisconsin -Toxic and Hazardous Substances: Carbon Dioxide.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Carbon Dioxide is not on the California Proposition 65 lists

#### OTHER CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: Carbon Dioxide is listed on the DSL Inventory

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## 15. REGULATORY INFORMATION (Continued)

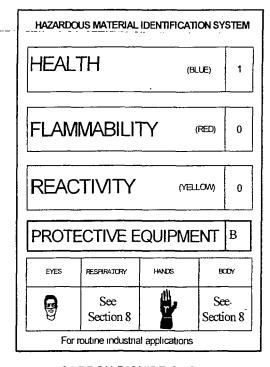
**CANADIAN WHMIS REGULATIONS:** Carbon Dioxide is categorized as a Controlled Product, Hazard Class A as per the Controlled Product Regulations.

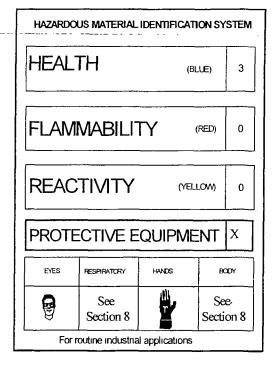
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: Carbon Dioxide is not on the CEPA Priorities Substances Lists

## 16. OTHER INFORMATION

#### **CARBON DIOXIDE GAS**

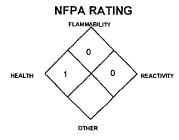
#### **CARBON DIOXIDE, LIQUEFIED**

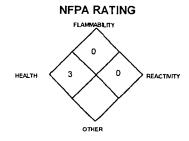




#### **CARBON DIOXIDE GAS**

### CARBON DIOXIDE, LIQUEFIED





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death

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## 16. OTHER INFORMATION (Continued)

Further information about Carbon Dioxide can be found in the following pamphlets published by Compressed Gas Association Inc (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

G-6	"Carbon Dioxide"
G-6.1	"Standard for Low Pressure Carbon Dioxide Systems at Customer Sites"
G-6 2	"Commodity Specification for Carbon Dioxide "
G-6.3	"Carbon Dioxide Cylinder Filling and Handling Procedures"
G-6.5	"Standard for Small Stationary Carbon Dioxide Systems
G-6 6	"Standard for Elastomer-Type Bulk Transfer Hose
P-1 .	"Safe Handling of Compressed Gases in Containers"
P-7	"Standard for the Re-Qualification of Cargo Tank Hose
P-14	"Accident Prevention in Oxygen-Rich and Oxygen Deficient Atmospheres"
SB-2	"Oxygen Deficient Atmospheres"
AV-1	"Safe Handling and Storage of Compressed Gases"
AV-7	"Characteristics and Safe Handling of Carbon Dioxide"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. PO Box 3519, La Mesa, CA 91944-3519 619/670-0609

Fax on Demand 1-800

1-800/231-1366

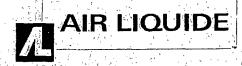


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

CARBON DIOXIDE - CO2 MSDS

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## MATERIAL SAFET DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

## 1. PRODUCT IDENTIFICATION

CHEMICAL NAME: CLASS:

**ACETYLENE** 

**SYNONYMS:** Ethine; Ethyne

**CHEMICAL FAMILY:** Alkane (hydrocarbon)

FORMULA: C<sub>2</sub>H<sub>2</sub>

PRODUCT USE:

Document Number: 10002

For chemical synthesis, manufacture of carbon

black, welding, cutting, and for general analytical or synthetic chemical uses.



## AIR LIQUIDE

MANUFACTURED/SUPPLIED FOR:

ADDRESS:

2700 Post Oak Drive Houston, TX 77056-8229

**EMERGENCY PHONE:** 

CHEMTREC: 1-800-424-9300

**BUSINESS PHONE:** 

General MSDS Information: 1-713/896-2896

Fax on Demand:

1-800/231-1366

## 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW This product is a colorless, flammable gas, with a garlic-like odor, that is dissolved in acetone Acetylene poses an extreme fire hazard when accidentally released. The main health hazard associated with a release of Acetylene is asphyxiation by displacement of oxygen. Acetylene is lighter than air, and may spread long distances. Distant ignition and flashback are possible. Flame or high temperature impinging on a localized area of the cylinder of this product can cause the cylinder to rupture violently without activating the cylinder's relief devices. Acetylene is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere Provide adequate fire protection during emergency response situations. Acetylene may decompose explosively at elevated temperatures and pressures.

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**DICE 01439** 

## 2. HAZARD IDENTIFICATION (Continued)

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE. The most significant route of over-exposure for this product is by inhalation.

INHALATION -Acetylene, at concentration below the LEL of 2.5% (25000 ppm), is essentially non-toxic. At higher concentrations, Acetylene has an esthetic effects. Symptoms of over-exposure to such high concentrations may include drowsiness, dizziness, and a general feeling of weakness.

High concentrations of this gas can cause an oxygen-deficient environment. It should be noted that before suffocation could occur, the lower flammability limit of Acetylene in air would be exceeded; possibly causing an oxygen-deficient and explosive atmosphere. Individuals breathing such an atmosphere may experience symptoms. which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows.

CONCENTRATION SYMPTOM OF EXPOSURE

12-16% Oxygen.

Breathing and pulse rate increased, muscular coordination slightly disturbed.

10-14% Oxygen:

Emotional upset, abnormal fatigue, disturbed respiration.

6-10% Oxygen:

Nausea and vomiting, collapse or loss of consciousness.

Below 6%.

Convulsive movements, possible respiratory collapse, and death.

OTHER POTENTIAL HEALTH EFFECTS: Acetylene is generally non-irritating to the skin and eyes. Acetylene is dissolved in a solvent, usually acetone. Any skin or eye contact with the solvent may be slightly irritating to contaminated skin or eyes.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to Acetylene may cause the following health effects:

ACUTE The most significant hazard associated with this product is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur The skin of a victim of over-exposure may have a blue color.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to Acetylene.

TARGET ORGANS: Respiratory system, central nervous system

## 3. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	mole %	EXPOSURE LIMITS IN AIR					
	, ,	<u> </u>	ACGIH 11		OSHA			
41 41			TLV	STEL	PEL	STEL	IDLH	OTHER
	ļ		. ppm	ppm	· ppm	ppm	ppm	
Acetylene	74-86-2	>98-99 6%	Simple Asphyxiant	. NE	NE	NE	NE	NIOSH REL. 2500 ppm, ceiling
Maximum Impi	inties	<2- 4%	with the product	All hazard in Data Sheet, p	nformation per per the require	tinent to this perments of the	oroduct has b OSHA Haz	hazards associated een provided in this ard Communication

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

أأعاد والمحادث والمحادون

NE = Not Established

C = Ceiling Limit

ير يري يا ممين علا

See Section 16 for Definitions of Terms Used

NOTE all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400 1-2004 format.

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#### 4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant clothing should be worn. Adequate fire protection must be provided during rescue situation.

Remove victim(s) to fresh air, as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary.

SKIN and EYE EXPOSURE If contact is made with the solvent, flush area for 15 minutes with water.

Victim(s) must be taken for medical attention. Take copy of label and MSDS to physician or other health professional with victim(s).

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable to a flammable gas.

AUTOIGNITION TEMPERATURE @ 1 atmosphere: 305 °C (581°F)

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 2:5% Upper (UEL): 82.0%

FIRE EXTINGUISHING MATERIALS: Extinguish fires of this gas by shutting-off the source of the gas, if possible. Use water spray to cool fire-exposed cylinders, structures and equipment

**UNUSUAL FIRE AND EXPLOSION HAZARDS** When involved in a fire, this material may decompose and produce toxic gases including carbon monoxide and carbon dioxide. Acetylene is extremely flammable and can readily form explosive mixtures with air over a very wide range. An explosion hazard exists in confined spaces when the gas is released. An explosive decomposition of pure acetylene can occur under certain conditions of elevated pressure, temperature and container size.

**DANGER!** Fires impinging (direct flame) on the outside surface of cylinders of Acetylene can be very dangerous. Direct flame exposure on the cylinder wall can cause a violent rupture of the cylinder, releasing the contents into a massive fireball and explosion of released Acetylene. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the cylinders. For fires in large areas, use unmanned hose holder or monitor nozzles to apply water on those cylinders involved as well as surrounding cylinders to keep them cool. If this is not possible, withdraw from area and allow fire to burn

Explosion Sensitivity to Mechanical Impact. Not sensitive

<u>Explosion Sensitivity to Static Discharge</u>: Static discharge may cause this product to ignite explosively, if released.

SPECIAL FIRE-FIGHTING PROCEDURES: The best fire-fighting technique may be simply to let the burning gas escape from the pressurized cylinder or piping system. If possible, stop the leak before extinguishing fire. If the fire is extinguished before the leak is sealed, the still-leaking Acetylene could explosively re-ignite without warning and cause extensive damage, injury, or fatality. In this case, increase ventilation (in enclosed areas) to prevent flammable or explosive mixture formation. Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for cylinder rupture, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of cylinders and exposures, evacuate the area. The North American Emergency Response Guidebook (Guide #116) recommends 0.5 miles.

#### 6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a release, clear the affected area, protect people, and respond with trained personnel. Adequate fire protection must be provided. Minimum Personal Protective Equipment should be Level B: fire-retardant protective clothing, gloves and Self-Contained Breathing Apparatus. Use only non-sparking tools and equipment.

If possible, close the Acetylene cylinder valve to stop the leak If this does not stop the release (or if it is not possible to safely reach the cylinder valve), allow the gas to release in-place, or move the cylinder to a safe area, away from ignition sources. Extreme caution should be used when moving a leaking cylinder of Acetylene.

Monitor the surrounding area for oxygen and combustible gas levels. Combustible gas concentrations must be below 10% of the LEL (2 5%), and the oxygen content above 19 5% before entry of personnel into the area, without Self-Contained Breathing Apparatus and protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES (Continued)

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

#### 7. HANDLING AND STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES**: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms

STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright (with valve-protection cap in place) and firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52 °C (125 °F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Post "No Smoking or Open Flames" signs in storage or use areas.

In the United States, cylinders of Acetylene stored inside buildings at locations of use must be limited to a total capacity of 2500 ft<sup>3</sup> (70m<sup>3</sup>). In Canada, the limit is for a total capacity of 2160 ft<sup>3</sup> (60m<sup>3</sup>) in non-sprinklered buildings and 6130 ft<sup>3</sup> (170 m<sup>3</sup>) in buildings with sprinkler systems. After these quantities are exceeded, a special room must be built for the storage of Acetylene. The installation of leak detection and alarms for storage areas of Acetylene must be considered.

Storage areas must meet national electrical codes for Class 1 Hazardous Areas. Have appropriate extinguishing equipment in the storage area (i.e. sprinkler system, portable fire extinguishers)

Cylinders should be separated from oxygen cylinders, or other oxidizers, by a minimum distance of 20 ft., or by a barrier of non-combustible material at least 5 ft. high, having a fire-resistance rating of at least 0 5 hours. Isolate from other incompatible chemicals (refer to Section 10, Stability and Reactivity).

It is important to note that Acetylene, in its free state, under pressure, may decompose violently. The higher the pressure, the smaller the initial force necessary to cause a reaction. Therefore, **never use Acetylene outside the cylinder at pressures in excess of 15 psig.** If pressures exceeding this limit are utilized, special explosion and fire safety precautions must be implemented.

Keep the smallest amount on-site as is necessary. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.

Use non-sparking ventilation systems, approved vapor-tight or explosion-proof equipment, and appropriate electrical systems. Electrical equipment used in gas-handling operations, or located in storage areas, should be non-sparking or explosion proof. Use a check valve in the discharge line to prevent hazardous backflow. Never tamper with pressure relief devices in valves and cylinders.

**SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS** Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used:

**Before Use:** Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use

**During Use:** Use designated CGA fittings and other support equipment. Do not use adapters. Use piping and equipment adequately designed to withstand pressures to be encountered. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Do not "crack" valve open before connecting it, since ignition may occur. Leak check system with leak detection solution, never with flame. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings, doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.

After Use: Close valve after each use and when empty Replace valve protection cap. Mark empty cylinders "EMPTY"....

NOTE: Use only DOT cylinders designed for acetylene storage. Earth-ground and bond all piping systems and equipment associated with this product

For welding and brazing operations, refer to ANSI Z-49.1 "Safety in Welding and Cutting" and OSHA safety regulations for welding, cutting, and brazing (29 CFR 1910 252). In addition, see the National Fire Protection Association (NFPA) publication 51 Oxygen Fuel Gas Welding and Cutting.

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# 7. HANDLING AND STORAGE (Continued)

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper connections, <u>DO NOT USE</u> ADAPTERS

THREADED:

Over 50 cubic feet (1 39 m<sup>3</sup>)

CGA 510 CGA 300 Ť.

Alternate.

Between 35 and 75 cubic feet (2 08 m<sup>3</sup>) Approximately 10 cubic feet (280 L) CGA 520 CGA 200

Canada - Over 50 cubic feet

CGA 200 CGA 415

PIN-INDEXED YOKE: Not Applicable

ULTRA HIGH INTEGRITY Not Applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT Follow practices indicated in Section 6 (Accidental Release Measures) Make certain application equipment is locked and tagged-out safely. Purge Acetylene-handling equipment with inert gas (i.e. nitrogen) before attempting repairs. Always use product in areas where adequate ventilation is provided.

# 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS** Use with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure Acetylene does not reach its lower flammability limit of 2.5%. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of Acetylene, and the presence of potentially explosive air-gas mixtures.

**RESPIRATORY PROTECTION** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% (air-purifying respirators will not function) or during emergency response to a release of this product. During an emergency situation, before entering the area, check for flammable gas level as well as oxygen-deficient atmospheres. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910 134), or equivalent State standards.

EYE PROTECTION Safety glasses.

**HAND PROTECTION** Wear leather gloves when handling cylinders of this product. Otherwise, wear glove protection appropriate to the specific operation for which this product is used. Wear Solvex or neoprene gloves if operations could lead to a potential exposure to the solvent

**BODY PROTECTION**: Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Safety shoes are recommended when handling cylinders.

### 9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 0°C (32°F), 1 atm: 0 07314 lb/ft<sup>3</sup> (1.1716 kg/m<sup>3</sup>)

BOILING POINT @ 10 psig -75°C (-103°F)

(-103°F)

FREEZING/MELTING POINT (@ 10 psig: -82.2°C (-116.°F)

pH: Not applicable.

SPECIFIC GRAVITY OF LIQUID @ -80°C (-112°F): 0.613

**MOLECULAR WEIGHT: 26.04** 

SPECIFIC GRAVITY OF GAS @ 0°C (32°F) (air = 1): 0.906

**EXPANSION RATIO**: Not applicable.

SOLUBILITY IN WATER, vol/vol @ 0°C (32°F and 1 atm: 1.7 EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD: 226 ppm (detection)

SPECIFIC VOLUME OF GAS @ 21.1°C (70°F) 1 atm: 14.7 ft3/lb (0.918 m3/kg)

**VAPOR PRESSURE @ 21.1°C (70°F)**: 635 psig ( 4378 kPa)

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

**APPEARANCE AND COLOR:** Colorless gas. Acetylene of 100% purity is odorless, but commercial purity has a garlic-like odor.

**HOW TO DETECT THIS SUBSTANCE (warning properties):** Commercial purity Acetylene has a garlic-like odor that may be a warning property. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

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### 10, STABILITY and REACTIVITY

**STABILITY**: Acetylene is stable at standard temperatures and pressures. Gaseous acetylene may decompose violently at elevated temperatures and pressures. Acetylene must not be used above pressure greater than 15 psig. The higher the pressure, the more likely it is for a reaction to occur.

**DECOMPOSITION PRODUCTS** Carbon and hydrogen When ignited in the presence of oxygen, carbon monoxide and carbon dioxide will be generated

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE Acetylene is not compatible with the following materials: Strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluonde), calcium hypochlorite; various heavy metals (copper, silver, mercury, brass with a copper content exceeding 65%) and the salts of these metals; halogens (bromine, chlorine, iodine, fluorine), hydrides (i.e. sodium hydride, cesium hydride), ozone, perchloric acid, potassium.

HAZARDOUS POLYMERIZATION. Can occur when heated or under pressure.

**CONDITIONS TO AVOID**. Contact with incompatible materials and exposure to heat, sparks and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst

#### 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA** The following information is for Acetylene.

TCLo (inhalation, human) = 20 pph, central nervous system, respiratory system effects

LCLo (inhalation, human) = 500,000 ppm/5 minutes

Other data pertaining to the effects of Acetylene inhalation on humans are as follows

Concentration Symptom

100,000 ppm Intoxication (drowsiness, dizziness, giddiness)

200,000 ppm Severe intoxication 300,000 ppm Loss of coordination

350,000 ppm Unconsciousness after 5 minutes of exposure.

Effects on Short-Term Inhalation: Animals have shown tolerance to 10% Acetylene. In studies with dogs, cats, and rabbits, Acetylene acts as an anesthetic at 20% exposure. Recovery occurs if the oxygen level is maintained. In an oxygen-deficient environment, death may occur after 5-10 minutes. Rodents exposed to 25, 50, and 80 percent Acetylene in oxygen for 1-2 hours daily (93 hours total exposure), evidenced no weight change or cellular damage. Mixtures of 80% Acetylene/20% oxygen caused a rise in blood pressure in an exposed cat.

**SUSPECTED CANCER AGENT**: Acetylene is not found on the following lists. FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT**. This product is not irritating, however, contact with the solvent can be slightly irritating to contaminated skin or eyes.

SENSITIZATION TO THE PRODUCT. Acetylene is not known to cause sensitization in humans

**REPRODUCTIVE TOXICITY INFORMATION**. Listed below is information concerning the effects of Acetylene on the human reproductive system.

Mutagenicity. No mutagenicity effects have been described for Acetylene

Embryotoxcity No embryotoxic effects have been described for Acetylene.

Teratogenicity: No teratogenicity effects have been described for Acetylene.

Reproductive Toxicity: No reproductive toxicity effects have been described for Acetylene.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**: Acute or chronic respiratory conditions may be aggravated by over-exposure to Acetylene.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Acetylene.

**RECOMMENDATIONS TO PHYSICIANS**: Administer oxygen, if necessary, treat symptoms, reduce or eliminate exposure

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## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY. Acetylene will be dissipated rapidly in well-ventilated areas. The following environmental data are available for acetylene

ACETYLENE: Water Solubility = 100 vol /100 vol at 18 EC. Acetylene is not expected to be harmful to aquatic life. Only moderately toxic to fish Volatility and low solubility suggest it would be rare for water to become critically polluted from accidental releases. Acetylene is biodegraded through vanous plant and bacterial systems by inactivating atmospheric acetylene through their nitrogen- fixing mechanisms

EFFECT OF MATERIAL ON PLANTS or ANIMALS Any adverse effect on animals would be related to oxygen deficient environments and the anesthetic properties of Acetylene at high concentrations of exposure. No adverse effect is anticipated to occur to plant-life.

EFFECT OF CHEMICAL ON AQUATIC LIFE. No evidence is currently available on Acetylene's effects on aquatic life.

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide Do not dispose of locally

#### 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Acetylene, dissolved

HAZARD CLASS NUMBER and DESCRIPTION 2 1 (Flammable Gas)

UN IDENTIFICATION NUMBER.

**UN 1001** 

**PACKING GROUP** 

Not applicable.

DOT LABEL(S) REQUIRED:

Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996). 116

MARINE POLLUTANT. Acetylene is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173 301 (b)).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

### 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Acetylene is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act This product is subject to the reporting requirements of Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 370 21).

SARA THRESHOLD PLANNING QUANTITY Not applicable

TSCA INVENTORY STATUS: Acetylene is listed on the TSCA Inventory

CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

### OTHER U.S. FEDERAL REGULATIONS:

- Acetylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.
- Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Acetylene is not listed in Appendix A, however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lbs (4,553 kg) or greater is covered under this regulation unless it is used as a
- Acetylene does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Acetylene is listed in Table 3 as a Regulated Substance in quantities of 10,000 lbs (4,553 kg) or greater, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release Prevention

OTHER CANADIAN REGULATIONS: Acetylene is categorized as a Controlled Product, Hazard Classes A. B1. F as per the Controlled Product Regulations.

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# 15. REGULATORY INFORMATION (Continued)

STATE REGULATORY INFORMATION: Acetylene is covered under specific State regulations, as denoted below

Alaska - Designated Toxic and Hazardous Substances: Acetylene

California - Permissible Exposure Limits for Chemical Contaminants: Acetylene Florida - Substance List: Acetylene.

Illinois - Toxic Substance List: Acetylene. Kansas - Section 302/313 List: No Massachusetts - Substance List: Acetylene --Minnesota - List of Hazardous Substances:
Acetylene

Missouri - Employer Information/Toxic Substance List: Acetylene

New Jersey - Right to Know Hazardous Substance List: Acetylene

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Acetylene

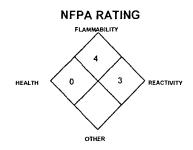
Rhode Island - Hazardous Substance List: Acetylene

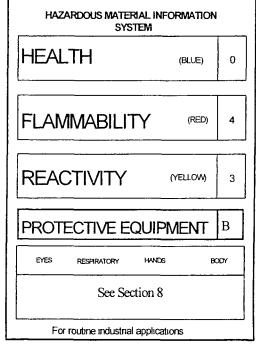
Texas - Hazardous Substance List: No West Virginia - Hazardous Substance List: No

Wisconsin - Toxic and Hazardous Substances: No

CALIFORNIA PROPOSITION 65: Acetylene is not on the California Proposition 65 lists\_\_\_\_\_\_

## 16. OTHER INFORMATION





MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about acetylene can be found in the following pamphlets and videos published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5<sup>th</sup> floor, Chantilly, VA 20151-2923 (703) 788-2700.

G-1	"Acetylene"
G-1.1	"Commodity Specification for Acetylene"
P-1	"Safe Handling of Compressed Gases in Containers"
SB-4	"Handling Acetylene Cylinders in Fire Situations"
SB-8	"Use of Oxy-fuel Gas Welding and Cutting Apparatus"
AV-9	"Handling Acetylene Cylinders in Fire Situations"

"Handbook of Compressed Gases"

ACETYLENE - C2H2 MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

PAGE 8 OF 9

# 16. OTHER INFORMATION (Continued)

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

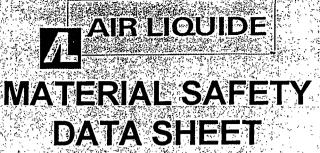


This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910 1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date, however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

ACETYLENE - C<sub>2</sub>H<sub>2</sub> MSDS

**EFFECTIVE DATE: AUGUST 31, 2005** 

PAGE 9 OF 9



Prepared to U.S. OSHA: CMA, ANSI and Canadian WHMIS Standards

## 1. PRODUCT IDENTIFICATION

# CHEMICAL NAME: CLASS: TRICHLOROTRIFLUOROETHANE

SYNONYMS: 1,1,2-Trichlorofluoromethane; 1,1,2-Trichloro-1,2,2-Trifluoroethane;

Fluorocarbon 113; Refrigerant 113; Propellant 113; Freon-113;

CFC-113 FC:113 R-113 TCTFE TTE

CHEMICAL FAMILY NAME: Halogenated Aliphatic Hydrocarbon

FORMULA: C2Cl3F3

PRODUCT USE:

Document Number, 20165

Refrigerant; foam blowing agent; solvent

drying; degreasing agent; polymer

intermediate for dechlorination of chemicals;

fire extinguishing agent

SUPPLIER/MANUFACTURER'S NAME:

ADDRESS:

AIR LIQUIDE AMERICA CORPORATION

2700 Post Oak Drive

Houston, TX 77056-8229

EMERGENCY PHONE:

CHEMTREC: 1-800-424-9300

BUSINESS PHONE:

General MSDS Information 1-713/896-2896

Fax on Demand: 1-800/231-1366

**DICE 01448** 

# 2. COMPOSITION and INFORMATION ON INGREDIENTS

	CHEMICAL NAME	CAS#	mole %		Sala di Si	EXPOSU	RE LIMITS IN	AIR	
				ACG	H.	1 te	OSHA		3
			30. 1 h	TLV	STEL	PEL	STEL	IDLH	OTHER
	a the appearance of the part of the same of the same		S. C. C. C. C. C. C. C. C. C. C. C. C. C.	ppm	ppm -	ppm	(ppm	ppm .	an a managan i i i i i i i i i i i i i i i i i i i
	Trichlorotrifluoroethane	76-13-1	100%	1000, A4	1250 ;	1000	1250	2000	NIOSH REL; 1000
1				(Not- Classifiable			(Vacated 1989		"TWA; 1250 STEL": DFG MAK: 500
	the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	· -/2 ·		as a Human Carcinogen)			PEL)		

NF = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used.

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format.

# 3 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW. Trichlorotrifluoroethane is a colorless non-flammable liquefied gas with an ether-like odor at high concentrations. Trichlorotrifluoroethane can cause central nervous system depression after inhalation of high concentrations. Symptoms of such over-exposure can include headache, drowsiness fatigue, and weakness. At high concentrations, the gas can act as an asphyxiant, by displacing oxygen. Therefore, exposure to high concentrations of this gas can be fatal. Contact of the gas or liquid can be irritating to the skin and eyes. Frostbite can be caused by contact with rapidly expanding gases or the liquefied gas. This gas is not flammable and not reactive in normal emergency response situations. However, if involved in a fire, this product can decompose to produce toxic gases (i.e. hydrogen fluoride, hydrogen chloride, phosgene).

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of over-exposure for this gas are by inhalation and contact with the skin and eyes.

Exposure to low concentrations begins to cause impairment of psychomotor performance at about 2500 ppm. Symptoms include the loss of the ability to concentrate and mild lethargy.

Exposures to high concentrations of this gas may cause central nervous system depression and irritation of the nose, throat and upper respiratory system. Effects of such over-exposure can include light-headedness, giddiness, shortness of breath, and narcosis.

High concentrations of this gas can also cause an oxygendeficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

## SYMPTOM OF EXPOSURE

12-16% Oxygen:

Breathing and pulse rate increased, muscular coordination slightly

disturbed.

10-14% Oxygen:

Emotional upset, abnormal fatigue,

disturbed respiration.

6-10% Oxygen:

Nausea and vomiting, collapse or loss of consciousness.

Below 6%:

Convulsive movements, possible respiratory collapse, and death.

CONTACT WITH SKIN or EYES: Brief contact of Trichlorotrifluoroethane with the skin is not imitating. Trichlorotrifluoroethane is a defatting agent and prolonged or repeated contact causes irritation and dermatitis (inflammation, reddening and swelling). Eye contact of concentrated vapors of Trichlorotrifluoroethane may be slightly irritating. Contact with the liquid and the eyes can cause irritation.

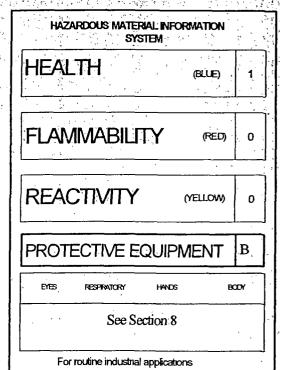
OTHER POTENTIAL HEALTH EFFECTS: Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact can quickly subside.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to Trichlorotrifluoroethane may cause the following health effects:

ACUTE: The most significant hazard associated with Trichlorotifiluoroethane is via inhalation of high concentrations. Such over-exposure can cause central nervous system depression and can cause oxygen deficiency. Symptoms of central nervous system depression include light-headedness, giddiness, shortness of breath, and narcosis. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion and nausea. Severe inhalation over-exposures may be fatal.

CHRONIC: There are currently no confirmed adverse health effects on humans associated with chronic exposure to Trichlorotrifluoroethane.

TARGET ORGANS: Respiratory system, central nervous system.



## 4 FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE FIGURIAL PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Seif-Contained Breathing Apparatus should be worn.

Remove victim(s) to fresh air, as quickly as possible affinot breathing give artificial respiration. If breathing is difficult, give oxygen. Only trained personnel should administer supplemental oxygen.

SKIN EXPOSURE: Contact with the liquid or rapidly expanding gases can cause frostbite. In the event of frostbite, medical attention must be sought. Frozen tissue is painless and appears waxy, with a possible yellow color. Frozen tissue will become swollen painful and prone to infection when thawed. If the frozen part of the body has been thawed by the time medical attention has been obtained, cover the area with a dry sterile dressing and a large bulky protective covering.

EYE EXPOSURE: If liquid is splashed into eyes, or if irritation of the eye develops after exposure to liquid or gas, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim roll eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable, inert gas. Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When involved in a fire, this material may decompose and produce toxic gases (i.e. phosgene, hydrogen fluoride, hydrogen chloride). Trichlorotrifluoroethane does not

burn; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not sensitive. Explosion Sensitivity to Static Discharge: Not sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

Minimum Personal Protective Equipment should be: Level B: Self-Contained Breathing Apparatus. Locate and seal the source of the leaking gas. Colorimetric tubes are available to detect the presence of Trichlorotrifluoroethane. Readings should be below levels listed in Section 2 (Composition and Information on Ingredients) and the area should be monitored for oxygen levels. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

If leaking incidentally from the cylinder or its valve, contact your supplier.

#### 7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms, due to oxygen deficiency.

**DICE 01450** 

NFPA RATING
FLÁMMABELITY

0
REACTIVITY

TRICHLOROTRIFLUOROETHANE - C2Cl3F3 MSDS

**EFFECTIVE DATE: JUNE 1, 1998** 

# 7. HANDLING and USE (Continued)

storage and Handling Practices: Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F).

Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Use only storage containers and equipment (pipes, valves, fittings to relieve pressure, etc.) designed for the temperatures and pressures for the use and storage of Liquid Trichlorotrifluoroethane.

Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders.

Keep the smallest amount necessary on-site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.

Before Use: Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

After Use: Close main cylinder valve. Valves should be closed tightly. Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for gas storage. Close valve after each use and when empty.

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, <u>DO NOT</u> USE ADAPTERS:

THREADED:

**CGA 660** 

PIN-INDEXED YOKE:

Not applicable.

**ULTRA HIGH INTEGRITY:** 

Not applicable.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents gas dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen.

RESPIRATORY PROTECTION: Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards. The following NIOSH respiratory protection recommendations are for Trichlorotrifluoroethane (as 1,1,2-Trichloro-1,2,2-Trifluoroethane).

**CONCENTRATION** 

RESPIRATORY EQUIPMENT

Up to 2000 ppm

Supplied Air Respirator (SAR), or full-facepiece SCBA.

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive-pressure, full facepiece SCBA or positive pressure, full-facepiece Supplied Air Respirator (SAR) with an

auxiliary positive pressure SCBA.

# 8. EXPOSURE CONTROLS PERSONAL PROTECTION (Continued)

NIOSH respiratory protection recommendations (continued)

Escape Gas mask with organic vapor cartridge or escape-type SCBA should be used.

The IDLH concentration for Trichlorotrifluoroethane is 2000 ppm.

EYE PROTECTION: Splash goggles or safety glasses. Face-shields should be worn if contact with the liquefied gas is anticipated.

HAND PROTECTION: Wear leather gloves or glove protection appropriate to the specific operation for which this product is used.

BODY PROTECTION: Use body protection appropriate for task. Transfer of large quantities under pressure may\_require protective equipment appropriate to protect employees\_from splashes of liquefied product.\_ Safety\_shoes are recommended when handling cylinders.

# 9. PHYSICAL and CHEMICAL PROPERTIES

DENSITY, SATURATED VAPOR: 7.38 kg/m<sup>3</sup> LIQUID DENSITY @ 25°C (77°F): 1.565 kg/L BOILING POINT @ 101.325 kPa: 47.6°C (117.6°F) FREEZING/MELTING POINT: -35.0°C (-31.07°F)

SPECIFIC GRAVITY (water = 1) @ 25°C (77°F): 1.5635

SOLUBILITY IN WATER weight % @ 25°C (77°F): 0.017%

EVAPORATION RATE (nBuAc = 1): Not applicable.

ODOR THRESHOLD: 45 ppm (odor detection); 70 ppm (recognition)

**pH**: Not applicable.

MOLECULAR WEIGHT: 187.376
EXPANSION RATIO: Not applicable.
SPECIFIC VOLUME:: Not available.

VAPOR PRESSURE @ 21.1°C (70°F): 5.5 psia

COEFFICIENT WATER/OIL DISTRIBUTION: Log P (oct) 1.66

APPEARANCE AND COLOR: Colorless, odorless, non-flammable gas. At high concentrations, this gas may have a sweetish odor.

HOW TO DETECT THIS SUBSTANCE (warning properties): The odor is good warning properties of release of this gas as it is detectable well in advance of toxic levels. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

### 10. STABILITY and REACTIVITY

STABILITY: Normally stable. Trichlorotrifluoroethane decomposes above 250-320°C (482-608°F).

**DECOMPOSITION PRODUCTS**: If product is exposed to fire, it may decompose yielding toxic products (i.e. hydrogen fluoride, phosgene, hydrogen chloride).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Trichlorotrifluoroethane can react explosively with chemically active metals, such as, calcium, powdered aluminum, zinc, magnesium, beryllium, titanium, samarium, lithium and barium.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible materials and avoid exposing cylinders to extremely high temperatures, which could cause the cylinders to rupture or burst.

### 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following information is available for Trichlorotrifluoroethane.

Skin-Rabbit, adult 500 mg open Mild irritation effects Oral-Rat LD50: 43 g/kg Inhalation-Rat LCLo: 87,000 ppm/6 hours Inhalation-Mouse LCLo. 25 pph/90 seconds

SUSPECTED CANCER AGENT: Trichlorotrifluoroethane is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**DICE 01452** 

TRICHLOROTRIFLUOROETHANE - C2CI3F3 MSDS

3.

EFFECTIVE DATE: JUNE 1, 1998

# 11. TOXICOLOGICAL INFORMATION (Continued)

IRRITANCY OF PRODUCT: Brief contact of Trichlorotrifluoroethane with the skin is not irritating. Trichlorotrifluoroethane is a defatting agent and prolonged or repeated contact causes irritation and dermatitis (inflammation, reddening and swelling). Eye contact of concentrated vapors of Trichlorotrifluoroethane may be slightly irritating. Contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION OF PRODUCT: Trichlorotrifluoroethane is not known to cause sensitization in humans.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects Trichlorotrifluoroethane on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for Trichlorotrifluoroethane.

Embryotoxcity: No embryotoxic effects have been described for Trichlorotrifluoroethane.

Teratogenicity: No teratogenicity effects have been described for Trichlorotrifluoroethane.

Reproductive Toxicity: No reproductive toxicity effects have been described for Trichlorotrifluoroethane.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory and skin conditions may be aggravated by over-exposure to Trichlorotrifluoroethane.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary; treat symptoms; eliminate exposure.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Trichlorotrifluoroethane.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas. Trichlorotrifluoroethane is a chlorofluorocarbon (CFC) compound. Chlorofluorocarbon compounds have been implicated in the possible depletion of the stratospheric ozone, via a series of complex chemical reactions which occur in the upper atmosphere. Atmospheric ozone is essential in protecting plants and animals from potentially harmful ultraviolet-light exposures. All work practice must be directed at eliminating environmental contamination. The following environmental data are available for Trichlorotrifluoroethane:

Log K<sub>ow</sub> = 1.66. Water solubility of 170 mg/L @ 25°C BCF = 34 and 11 Trichlorotrifluoroethane is not expected to bioaccumulate significantly in aquatic organisms.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to adverse effects on the cardiovascular system and to exposure to oxygen deficient environments. The symptoms experienced by over-exposed animals would be similar to those described for exposed humans. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

## 13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

## 14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Refrigerant gases, n.o.s. (Trichlorotrifluoroethane)

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-flammable Gas)

**UN IDENTIFICATION NUMBER:** 

UN 1078

PACKING GROUP:

Not applicable.

DOT LABEL(S) REQUIRED:

Non-Flammable Gas-

. 516 ... . . .

DICE 01453

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 126

TRICHLOROTRIFLUOROETHANE - C2CI3F3 MSDS

**EFFECTIVE DATE: JUNE 1, 1998** 

# 14. TRANSPORTATION NEORMATION (Continued)

MARINE POLLUTANT: Trichlorotrifluoroethane is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173,301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

## 15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Trichlorotrifluoroethane is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

COMPONENT	SARA 302	SARA 304	SARA 313
Trichlorotrifluoroethane	NO	NO	YES

SARA THRESHOLD PLANNING QUANTITY: Not applicable.

TSCA INVENTORY STATUS: Trichlorotrifluoroethane is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITIES (RQ): Not applicable.

CALIFORNIA PROPOSITION 65: Trichlorotrifluoroethane is not on the California Proposition 65 lists.

STATE REGULATORY INFORMATION: Trichlorotrifluoroethane is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Trichloro-trifluoroethane

ret in her -

California - Permissible Exposure Limits for Chemical Contaminants: Trichlorotrifluoroethane.

Florida - Substance List: Trichlorotrifluoroethane.

Illinois - Toxic Substance List: Tnchlorotrifluoroethane

Kansas - Section 302/313 List: No.

Massachusetts - Substance List: Trichlorotrifluoroethane.

Minnesota - List of Hazardous Substances: Trichlorotrifluoroethane.

Missouri - Employer Information/Toxic Substance List: Trichlorotrifluoroethane. New Jersey - Right to Know Hazardous

Substance List: Trichlorotrifluoroethane.

North Dakota - List of Hazardous
Chemicals, Reportable Quantities: No

Pennsylvania - Hazardous Substance List: Trichlorotrifluoroethane

Rhode Island - Hazardous Substance List: Tnchlorotrifluoroethane.

Texas - Hazardous Substance List: Tnchlorotrifluoroethane.

West Virginia - Hazardous Substance List: Tnchlorotrifluoroethane

Wisconsin - Toxic and Hazardous Substances: Trichlorotrifluoroethane.

#### OTHER U.S. FEDERAL REGULATIONS:

 Trichlorotrifluoroethane is listed as a Class I ozone-depleting chemical. This product is required to bear the following label:

Warning: Contains Trichlorotrifluoroethane, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

- Trichlorotrifluoroethane is subject to the reporting requirements under Title VI of the Clean Air Act Amendments of 1990: "Stratospheric Ozone Protection". requirements under Title VI of the Clean Air Act Amendments of 1990: "Stratospheric Ozone Protection" of Section 112(r) of the Clean Air Act.
- Trichlorotrifluoroethane is subject to the reporting requirements of CFR 29 1910.1000.
   Trichlorotrifluoroethane is listed on Table Z.1.
- Trichlorotrifluoroethane is not listed in Appendix A as a highly hazardous chemical, per 29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals.
- Trichlorotrifluoroethane is not listed as a Regulated Substance, per 40 CFR, Part 68; of the Risk Managementfor Chemical Accidental Release Prevention.

OTHER CANADIAN REGULATIONS: Trichlorotrifluoroethane is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

# 16. OTHER INFORMATION

MIXTURES: When two or more gases or liquefied gases are mixed their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

P-1 "Safe Handling of Compressed Gases in Containers"

P-14 "Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres"

SB-2 "Oxygen Deficient Atmospheres"

AV-1 "Safe Handling and Storage of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. 9163 Chesapeake Drive, San Diego, CA 92123-1002 619/565-0302

Fax on Demand:

1-800/231-1366



This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition

#### 600189-00 MOBIL DIE OIL HEAVY MATERIAL SAPETY DATA BULLETIN

# 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MCBIL DTE OIL HEAVY SUPPLIER: EXXONMOBIL CORPORATION 3225 GALLOWS RD. /

FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): .609-737-4411 24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300 Product and Technical Information: (Secondary) 281-834-3296

Lubricants and Specialties: 800-662-4525 800-443-9966

Fuels Products: 800-947-9147 MSDS Fay on Demand: 613-228-1467

MSDS Internet Website: http://emmsds.ihssolutions.com/

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS:

None.

See Section 8 for exposure limits (if applicable).

# 3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15). EMERGENCY OVERVIEW: Amber Liquid. DOT ERG No. : NA POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use this product does not pose a risk to health. Excessive exposuremay result in eye, skin or respiratory irritation. For further health effects/toxicological data, see Section 11.

#### 4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See

Section 16 - Injection Injury)
INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-re-mouth resuscitation.

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INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

#### 5 FIRE-FIGHTING MEASURES

00 411400 CO.11

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SFECIAL FIRE FIGHTING FROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION MAZARDS: None

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COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur exides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 210(410) (ASTM D-93).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0% NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

#### **8. ACCIDENTAL RELEASE MEASURES**

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report epill/release to Coast Guard National Response Center toll free number (800)424-8602. In case of accident or road spill notify CHEMTPEC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13. WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

FERSONAL PRECAUTIONS: See Section 8

#### 7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing

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agents and compustible materials Do not store near heat, sparks, flame or strong oxidents.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - CSHA Permissible Exposure Limit (PEL)

YENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator

EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Amber ODOP: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F) · NA

FLASH POINT C(F): > 210(410) (ASTM D-93)

FLAMMABILITY (solids) · NE AUTO FLAMMABILITY C(F) : NA

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-months 20 C: < 0.1

\_\_ VAPOR DENSITY: > 2.0

**EVAPORATION RATE: NE** 

RELATIVE DENSITY, 15/4 C. 0.879

SOLUBILITY IN WATER. Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, CSt: 95.0

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VISCOSITY AT 100 C, est: 10.8 POUR POINT C(F): < -6(22)FREEZING POINT C(F): NE VOLATILE ORGANIC COMPOUND. NE

DMSO EXTRACT, IP-346 (WT. %): <3, for mineral oil only NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REFRESENTATIVE

#### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable. CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur

#### 11. TOXICOLOGICAL DATA

#### ---ACUTE TOXICOLOGY---

- ORAL TOXICITY (RATS). Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- JNHALATION TOXICITY (RATS): Practically non-toxic (LCSD: greater than 5 mg/l). --- Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). --- Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). --- Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.
  - ---SUBCHRONIC TOXICOLOGY (SUMMARY) ---
- No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY ---

No teratogenic effects would be expected from dermal exposure, based on laboratory develormental toxicity studies of major components in this formulation and/or materials of similar composition. --- CHRONIC TOXICOLOGY (SUMMARY) ---

http://emmsds.ihspsl.com/netacgi/nph-brs.exc?d=MRUS&s1=&s2=&s3=&s4=000006954&. 5/20/2003

Repeated and/or prolonged exposure may cause irritation to the skin,
eyes or respiratory tract. Overexposure to oil mist may result
in oil droplet deposition and/or granuloma formation. For
mineral base oils: Base oils in this product are severely
solvent refined and/or severely bydrotreated. Chronic mouse skin
painting studies of severely treated oils showed no evidence of
carcinogenic effects. These results are contirmed on a
continuing basis using various screening methods such as Modified
Ames Test, IP-346 and/or other analytical methods. For
synthetic base oils: The base oils in this product have been
tested in the Ames assay and other tests of mutagenicity with
negative results. These base oils are not expected to be
carcinogenic with chronic dermal exposures.

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---SENSITIZATION (SUMMARY)--Not expected to be sensitizing based on tests of this product,
components, or similar products

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

FCOTOXICITY: Available ectoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MCBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY. This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL. Broaccumulation is unlikely due to the very low water solubility of this product, therefore broavailability to aquatic organisms is minimal.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP) However, used product may be regulated.

#### 14. TRANSPORT INFORMATION

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USA DOT: NOT REGULATED BY USA DOT.
```

RID/ADR NOT REGULATED BY RID/ADR

... IMO: NOT REGULATED BY IMO IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or lese): YES

#### 15. REGULATORY INFORMATION

US CSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, and DSL.

U.S Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

THIS PRODUCT HAS BEEN AUTHORIZED BY USDA FOR USE UNDER THE FOLLOWING CATEGORY: This product is acceptable as a lubricant where there is no possibility of food contact (complies with earlier USDA guidelynes for H-2 lubricant use/.

The following product ingredients are cited on the lists below

CHEMICAL NAME CAS NUMBER LIST CITATIONS ------

ZINC (ELEMENTAL ANALYSIS) (<0.01%) 7440-66-5 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZEDP) (0.10%)

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CAPC 21=LA ETK 2=ACGIH Al 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 393 3=ACG1H A2 8=IARC 2B 13=TBCA 5e 18=CA RTK 23=MN RTK 4-NTP CARC 9-OSHA CARC 14-TSCA 6 19-FL RTK 24=NJ RTK 5=NTP SUS 10=OSHA 2 15=TSCA 12b 20=IL RTK 25=PA RTK

26=RI RTK

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Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

#### 16. OTHER INFORMATION

USE: STEAM TURBINE OIL

NOTE: PRODUCTS OF EXXCN MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS

Health studies have shown that many hydrocarbons pose potential human health ricks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical

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treatment within the first few hours may eignificantly reduce the citimate extent of injury TNDUSTRIAL LABEL

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Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

fcr Internal Use Only: MHC: 1\* 1\* 1\* 1\* 1\*, MPPEC. A, TRN: 600189-00,
ELIS: 400033, CMCS97. 970106, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 28MAY2002

Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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# Industries MATERIAL SAFETY DATA SH

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:

MANUFACTURER'S NAME:

Carbide Industries

ADDRESS:

4400 Bells Lane

P O Box 3727

Louisville Kentucky 40211

Louisville, Kentucky 40201

PHONE:

1-800-626-2578

**EMERGENCY PHONE:** 

CI

1-502-775-4123 (24 hr.)

Chemtrec

1-800-424-9300

In Canada Philip Environmental 1-800-567-7455

ERP-2-1008

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

PRIMARY

COMPONENT(S)

CAS#

THRESHOLD LIMIT VALUE

PEL

Calcium Hydroxide

93 1305-62-0

%

5 mg/m<sup>3</sup>

5 mg/m3 (respirable)

Calcium Carbonate

<5 471-34-1 10 mg/m<sup>3</sup>

15 / 5 mg/m<sup>3</sup> (total / respirable)

(Carbide time, based upon calcium carbide, typically contains small amounts of metallic slag and un-reacted carbon particles)

## SECTION 3 - HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW:**

Light gray material, sized from small clumps to fine powder, occasionally in suspension in water. Caustic, may cause skin and eye irritation and burns.

## POTENTIAL HEALTH EFFECTS:

1. INHALATION - Irritating to respiratory tract. Experienced as nausea, vomiting, cough, excess sputum and chest discomfort. May cause pulmonary edema.

2. EYES -Exposure may cause severe irritation, expenenced as pain, excess tearing, conjunctival edema and hemormage, comeal edema and opacification.

3. SKIN-Exposure may cause irritation, seen as redness, with possible swelling.

4. INGESTION -Exposure can cause burns to mouth, throat and digestive tract.

5. CHRONIC -Dematitis

# Industries MATERIAL SAFETY DATA SHEET

## **SECTION 4 - FIRST AID MEASURES**

1. INHALATION - Remove to fresh air. If breathing has stopped, artificial respiration should be applied; get prompt medical attention

2. EYES -Immediately flush eyes with running water for 15 minutes, including under eyelids. Get prompt medical attention

3. SKIN -Brush off excess material, flush with vinegar to neutralize alkali effects. Wash with soap

and water.

4. INGESTION -Dilute by drinking water or milk. Gargle with vinegar to prevent throat irritation. Do not

induce vomiting. Get prompt medical attention.

# **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT NA **AUTO-IGNITION** TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR % BY VOLUME:

Lower: NA Upper NA

NFPA 704M RATING 1-0-0

**EXTINGUISHER** 

MEDIA

Not flammable

## SPECIAL FIRE FIGHTING PROCEDURES

Material is caustic. When heated above 580(C), will dissociate into water vapor and calcium oxide (CaO). When present in a fire in an enclosed area, full protective clothing, eye protection, and self-contained breathing apparatus should be worn.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

As produced by the reaction of water and calcium carbide, may contain small amounts of acetylene gas possibly evolving a flammable mixture.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Evacuate all personnel from affected area. Use appropriate protective equipment when responding to spills. Keep product contained. Follow federal, state and local regulations for disposal.

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The date in this Material Safety Date Sheet relates only to the specific material designated herein and does not apply to the product's use in combination with other materials or for use other than its Intended purpose.

# Industries MATERIAL SAFETY DATA: SHEET. - MSUS NO US - DATE: 11/1/102 PAGE 3 of 5

# SECTION 7 - HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store in clean, ventilated area. Isolate incompatible materials (see Section 10). Post "No Smoking" or "No Open Flames' signs in storage area. Accumulations of acetylene after its release from the slurry can be ignited by any ignition source. All electrical equipment used in or around carbide lime handling or storage areas should comply with the requirements of the National Electrical Code.

### **OTHER PRECAUTIONS:**

Consumption of food or beverages should be prohibited in the work area. Access to storage and handling areas should be limited to trained, authorized personnel.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION					
RESPIRATORY PROTECTION NIOSH/MSHA					
VENTILATION Vent to dust co	llector	LOCAL EXHAUST MECHANICAL (General) SPECIAL	Yes Yes No		
PROTECTIVE GLOVES	Leather fo	or dry material, rubber for slurry			
EYE PROTECTION	Safety Gla for handlir	asses w/ side shields for dusty areas; ng slurry.	face shields or goggles		
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	•	ve shirts & long trousers. Rubber aproons and safety showers in work areas	, , , , , , , , , , , , , , , , , , ,		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
BOILING POINT (dissociates)	580(C)	PERCENT VOLATILE BY VOLUME (%)	NA	
DENSITY (H20 = 1)	2.24	VAPOR DENSITY (Air=1):	NA	
VAPOR PRESSURE (AT 20(C))	NA	EVAPORATION RATE:	NA	
SOLUBILITY IN WATER	0.185 grams	s / milliliter at O(C)		
REACTIVITY IN WATER	None			
APPEARANCE AND ODOR Light gray, dusty appearance, slight ammonia odor				

**DICE 01465** 

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not apply to the products use in combination with other malerials or for use other than its intended purpose.

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HAZARDOUS POLYMERIZATION (Conditions to Avoid) Will not occur

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SECTION 10 - STABILITY AND REACTIVITY
STABILITY (Conditions to Avoid)
Stable. Will neutralize acid solutions.
INCOMPATIBILITY (Materials to Avoid)
Acidic material, organic nitro compounds, maleic anhydride phosphorus & copper.
HAZARDOUS DECOMPOSITION PRODUCTS
Calcium Oxide

SECTION 11 - TOXICOLOGICAL INFORMATION				
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	Non-toxic, however it may aggravate upposymptoms	per respiratory		
CARCINOGENICITY None	I.A.R C. Monographs Yes	No <u>x</u> No <u>x</u> No <u>x</u>		
[LCL <sub>50</sub> ]: 7340 mg/kg (oral - rat)				

# **SECTION 12 - ECOLOGICAL INFORMATION**

No adverse ecological effects are expected. Due to the alkalinity of lime, it may be subject to different regulations in different locations.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Recovered lime can be collected and reused for many applications, such as water treatment, road stabilization and acid neutralization. When disposal becomes necessary, follow applicable federal, state, and local government regulations.

**DICE 01466** 

The date in this Material Safety Data Sheet relates only to the specific material designated herein and does not epoly to the product's use in combination with other materials or for use other than its intended purpose

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# Industries MATERIAL SAFETY DATA SHEET PAGE 5 of 5

SECTION 14 - TRANSPORT INFORMATION						
PROPER SHIPPING NAME	Calcium Hydroxide					
HAZARD CLASS UN NUMBER DOT LABEL(S)/PLACARD(S)	NA					
REPORTABLE QUANTITY ( RC	2) None					
PACKAGING: Tank truck, dur	mp truck					

# **SECTION 15 - REGULATORY INFORMATION**

**APPLICABLE REGULATIONS:** 

None

# **SECTION 16 - OTHER INFORMATION**

**MSDS REVISION:** 

1.4

MSDS AUTHORIZATION DATE:

November 1<sup>s1</sup>, 2002

**DICE 01467** 

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not apply to the product's use in combination with other materials or for use other than its intended purpose.

# **Material Safety Data Sheet**



Propylene

# Section 1. Chemical product and company identification

Product Name

Propylene

Supplier

BTU GASES

4344.S.Main

Pearland, TX.77581

Product use

: Industrial Fuel Gas

MSDS#

: 010307

Date of

: 1-03-07

Preparation/Revision

in case of emergency

: 1-800-847-5664

# Section 2. Hazards identification

Physical state

: Gas (COLORLESS LIQUEFIED COMPRESSED GAS WITH A MILD ODOR.)

Emergency overview

Warning

FLAMMABLE GAS.

CONTENTS UNDER PRESSURE VAPOR MAY CAUSE FLASH FIRE POSSIBLE CANCER HAZARD.

MAY CAUSE CANCER BASED ON ANIMAL DATA

Keep away from heat, sparks and flame. Do not puncture or incinerate container. Keep container closed. Use only with adequate ventilation. Risk of cancer depends on

duration and level of exposure.

Contact with rapidly expanding gases can cause frostbite.

Routes of entry

Inhalation

Potential acute health effects

Eyes Skin

No known significant effects or critical hazards No known significant effects or critical hazards.

Inhalation

Acts as a simple asphyxiant

Ingestion

Ingestion is not a normal route of exposure for gases

Potential chronic health

affacts

CARCINOGENIC EFFECTS A4 (Not classifiable for human or animal.) by ACGIH, 3

(Not classifiable for human.) by IARC MUTAGENIC EFFECTS Not available. TERATOGENIC EFFECT: Not available.

: Acute or chronic respiratory conditions may be aggravated by overexposure to this gas.

Medical conditions aggravated by overexposure

See texicological Information (section 11)

# Section 3. Composition, information on ingredients

Propylene

CAS number 115-07-1.....

% Volume 100

Exposure limits

SUVA (Switzerland, 12/2003).

MAK: 17500 mg/m<sup>1</sup> 8 hour(s). Form. All

forms

MAK: 10000 ppm 8 hour(s). Form. All forms Arbejdstijsynet (Denmark, 10/2002). GV: 172 mg/m<sup>2</sup> 8 hour(s). Form: All forms GV: 100 ppm 8 hour(s). Form All forms Dai Lietuvos Higienos Normos (Lithuania, 12/2001).

TWA: 900 mg/m 3 8 hour(s). Form: All forms TWA: 508 ppm 8 hour(s). Form: All forms

Page: 1/6

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# Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training if fumes are still suspected to be present the rescuer should wear an appropriate mask or a self-contained breathing apparatus it may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes

Get medical attention if irritation occurs:

Skin contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse

Get medical attention

Frostbite Inhalation Try to warm up the frozen tissues and seek medical attention.

If inhaled, remove to fresh air . If breathing is difficult, give oxygen. If not breathing give

artificial respiration. Get medical attention.

ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear

# Section 5. Fire fighting measures

Flammability of the product : Flammable

Auto-Ignition temperature

454.85 to 459 85°C (850:7 to 859 7°F)

Flash point

Closed cup -108.15°C (-162.7°F)

Flammable limits

Lower 2 4% Upper 11%

Products of combustion

: These products are carbon oxides (CO, CO<sub>1</sub>).

Fire hazards in presence of

Extremely flammable in presence of open flames, sparks and static discharge, of

various substances

oxidizing materials.

Fire lighting media and

In case of fire, use water spray (fog), foam, dry chemicals, or CO 2.

instructions

If involved in fire, shut off flow immediately if it can be done without risk. Apply water

from a safe distance to cool container and protect surrounding area.

Extremely flammable. Gas may accumulate in confined areas, travel considerable

distance to source of Ignition and flash back causing fire or explosion

Special protective equipment for fire-fighters Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

#### Propylene

# ection 7. Handling and storage

Handling

: Keep container closed. Use only with adequate ventilation. Keep away from heat. sparks and flame. To avoid fire, minimize ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not puncture or incinerate container. High pressure gas. Use equipment rated for cylinder pressure, Close valve after each use and when empty. Protect cylinders from physical damage, do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement?

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent failing or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F)

# Section 8. Exposure Controls, Personal Protection

Engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep alroome levels below recommended exposure limits. The engineering controls also need to keep gas, vapor or dust concentrations below any explosive limits. Use explosion-proof ventilation equipment.

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment Indicates this is necessary to avoid exposure to liquid splashes, mists or

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Respiratory

: Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The applicable standards are (US) 29 CFR 1910 134 and (Canada) Z94 4-93

Hands

: Chemical-resistant, impervious gloves or gauntiets complying with an approved standard should be worn at all times when nandling chemical products if a risk as sessment indicates this is necessary

of a large spill

Personal protection in case: A self-contained breathing apparatus should be used to avoid inhalation of the product.

Consult local authorities for acceptable exposure limits.

# Section 9. Physical and chemical properties

Molecular weight : 42.09 p/mole

Molecular formula : C3-H6

Boiling/condensation point Melting/freezing point

; -47 7°C (-53 9°F) : -185°C (-301°F)

Critical temperature

: 91 9°C (197 4°F)

Vapor pressure Vapor density

: 136 6 psig

Specific Volume (ft/lb)

: 14 (Air = 1) : 9 D9091

Gas Density (Ib/ft)

: 011

# Section 10. Stability and reactivity

Stability and reactivity

: The product is stable

Incompatibility with various: Extremely reactive or incompatible with oxidizing agents

ibstances

#### Propylene

# section 11. Toxicological information

Chronic effects on humans : CARCINOGENIC EFFECTS A4 (Not classifiable for human or animal) by ACGIH, 3

(Not classifiable for human.) by IARC

Other toxic effects on

humans

. No specific information is available in our database regarding the other toxic effects of

this material for humans

Specific effects

Carcinogenic effects

: May cause cancer based on animal data. Risk of cancer depends on duration and level

of exposure.

Mutagenic effects

: No known significant effects or critical hazards

Reproduction toxicity

: No known significant effects or critical hazards.

# Section 12. Ecological information

Products of degradation

; These products are carbon oxides (CO, CO<sub>2</sub>) and water

Toxicity of the products of

: The product itself and its products of degradation are not toxic

biodegradation

**Environmental fate** 

: Not available.

Environmental hazards

: No known significant effects or critical hazards

Toxicity to the environment ; Not available.

# Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.

# Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
DOT Classification	UN1077	PROPYLENE SEE ALSO PETROLEUM GASES, LIQUEFIED	2 1	Not applicable (gas)		Limited quaptity Yes
						Packaging instruction Passenger Aircraft Quantity Ilimitation Forbidden
						Cargo Aircraft Quantity limitation: 150 kg
						Special provisions 19, T50
DG Classification	UN1077	PROPYLENE	21	Not applicable (gas)		Explosive Limit and Limited Quantity Index 0 125
	ĺ					ERAP Index

**DICE 01471** 

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Propylene \_\_\_\_\_ Passenger Carrying Ship index Forbidden Passenger Carrying Road or Rail Index Forbidden **Special** provisions 29 Not applicable (gas) UN1077 PROPYLENE SEE 21 Mexico ALSO PETROLEUM Classification GASES, LIQUEFIED

# Section 15. Regulatory information

#### **United States**

U.S. Federal regulations

; TSCA 8(b) inventory: Propylene

SARA 302/304/311/312 extremely hazardous substances. No products were found SARA 302/304 emergency planning and notification. No products were found.

SARA 302/304/311/312 hazardous chemicals. Propylene

SARA 311/312 MSDS distribution - chemical inventory - hazard identification. Propylene:

Fire hazard, Sudden Release of Pressure

Clean Water Act (CWA) 307 No products were found Clean Water Act (CWA) 311 No products were found.

Clean air act (CAA) 112 accidental release prevention, Propylene Clean air act (CAA) 112 regulated flammable substances. Propylene

Clean air act (CAA) 112 regulated toxic substances: No products were found,

**SARA 313** 

Form R - Reporting

; Propylene

Product name

CAS number

Concentration

requirements

115-07-1

100

Supplier notification

: Propylene

115-07-1

100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed

State regulations

: Pennsylvania RTK Propylene: (environmental hazard, generic environmental hazard)

Massachusetts RTK, Propylene

New Jersey Propylene

Canada

WHMIS (Canada)

: Class A: Compressed gas Class B-1; Flammable gas

CEPA DSL: Propylene

# Section 16. Other information

**United States** 

Label Requirements

: FLAMMABLE GAS

CONTENTS UNDER PRESSURE. VAPOR MAY CAUSE FLASH FIRE POSSIBLE CANCER HAZARD

MAY CAUSE CANCER BASED ON ANIMAL DATA.

**DICE 01472** 

Canada

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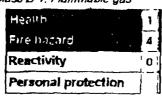
Propylene

bel Requirements

: Class A: Compressed gas Class B-1: Flammable gas

Hazardous Material

Information System (U.S.A.)



**National Fire Protection** Association (U.S.A.)



### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

EFFECTIVE JANUARY 2004

Suburban Propane, L.P.

P.O. Box 206

Whippany, NJ 07981-0206

**TRANSPORTATION EMERGENCY RESPONSE: CHEMTREC (800) 424-9300** 

GENERAL ADDITIONAL INFORMATION:

SAFETY SERVICES (973) 887-5300

#### SECTION 1 - PRODUCT IDENTIFICATION

Product Name:

Commercial Odorized Propane

Chemical Name:

Propane

Chemical Family:

Petroleum Hydrocarbon

Common Names:

Liquefied Petroleum Gas, LP-Gas, LPG, Bottle Gas

#### CLCTION 2 – PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT. - 14° F

FLASH POINT: -156° F

BULK DENSITY. 4.20 lbs. /gal

SPECIFIC GRAVITY.

LIOUID: 0 504

**VAPOR: 1.50** 

GAS VOLUME @ ATM PICESSURE & 60° F (Cu Ft gas/gal, Liquid): 36 38

SPECIFIC HEAT of LIOUID: 630 BTU/LB. & 60° F

VAPOR PRESSURE. 208 psig @ 100° F (ASTM) FLAMMABILITY LIMITS (% BY VOLUME IN AIR)

L.E.L. 21

U.E.L.: 95

EXPANSION RATIO OF LIQUID TO GAS @ 14.7psia: 1 to 270

LIQUID BOIL-OFF TO PR()PANE VAPOR ABOVE - 44 F°: 100%

COMPONENTS	CAS NO.	
PROPANE	74-98-6	,
PROPYLENE	115-07-1	<b>,</b>
BUTANES	106-97-8	2.5%
SULPHUR	7704-34-9	185 ppmw with no discoloration of Lead Acetate paper**
RESIDUAL MATTER		0 05 ml after boil off of 100 ml liquid sample **
ODCRANT(S)	Various	Odor concentration detectable in air of not over one-fifth
		of the lower limit of flammability per NFPA 58.
CORROSIVES		Not to exceed #1 grade copper strip test**

PROPANE IS COLORLESS AND ODORLESS.

PROPANE IS VERY STABLE

POLYMERIZATION WILL NOT OCCUR

AN ADDED ODORANT GIVES PROPANE A STRONG UNPLEASANT SMELL. Information regarding the effectiveness or intensity of odorants, is set forth in Section 3 below.

Combined constituents comprise a minimum 97.45 % of the total weight under Gas Processors Association (GPA) Standard 2140-97 \*\* Based on American Society of Testing and Materials (ASTM) Standard D1835-91

#### SECTION 3 - PHYSICAL HAZARD DATA

#### NFPA CLASSES:

- 4 Severe
- 3 Serious
- 2 Moderate
- 1 Slight
- 0 Minimal

Fire Hazard Health Hazard Reactivity

#### PROPANE IS FLAMMABLE. PROPANE IS A SIMPLE ASPHYXIANT.

Flammable Gas under pressure - Keep away from sources of ignition such as heat, sparks or flame. Vapor is heavier than air and may collect in low-lying areas.

ITEM NO. 1519278 SAF 5152

The intensity of odorants may fade over time due to chemical oxidation (in the presence of rust, air or moisture), adsorption or absorption. Underground leaks passing through certain soils may reduce odorant level. If odorant level appears weak, notify propane supplier at once. The ability of people to detect odors can vary greatly. Individuals with nasal perception problems may have a reduced sensitivity to odorants. This condition can be initiated or aggravated by the use of alcohol, tobacco or drugs. These odorants may not impart the warning of the presence of propane in every instance.

#### SECTION 4 – HEALTH HAZARD DATA

Propane is a simple asphyxiant and care must be taken to provide adequate ventilation. Vapors can displace available oxygen for breathing in confined spaces. Odor may not provide adequate warning of potentially hazardous concentrations. Propane is heavier than air and may collect in low-lying areas in the absence of wind or ventilation. Liquid propane can cause freeze burns when brought into direct contact with body parts.

#### SECTION 5 - PRIMARY ROUTES OF ENTRY

Eye: Although propane vapor is generally non-irritating, pressurized gas may inflict mechanical injury to the eye. Direct contact with liquid propane can cause freeze burns and resultant swelling of the eye

Skin: Contact with liquid propane can cause freeze burns similar to frostbite.

Ingestion: Deemed unlikely.

Inhalation: Simple asphyxiant Extreme over exposure may cause dizziness, headache, disonentation, excitability, fatigue, coughing, vomiting, anesthesia, unconsciousness and death.

SECTION 6 – EXPOSURE LIMITS					
COMPONENT	THRESHOLD LIMIT VALUE	PERMISSABLE EXPOSURE LIMIT			
	(TLV)	(PEL)			
PROPANE	NE	1000 ppm			
PROPYLENE	NE	NE			
BUTANES	NE	800 ppm			

PROPANE CAN DISPLACE DXYGEN REQUIRED FOR NORMAL RESPIRATION AND CARE SHOULD BE TAKE O PROVIDE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED SPACES AND IN THE ABSENCE OF WIND.

#### SECTION 7 - TOXICOLOGICAL INFORMATION

Propane is not listed in the latest edition of the National Toxicology Program Annual Report on Carcinogens, has not been found to be a potential carcinogen in the latest edition of the International Agency for Research on Cancer Monographs, and has not been identified as a carcinogen by OSHA.

Upon review of USC Title 15 Chapter 23 Section 2601 commonly known as Toxic Substance Control Act (TSCA), Propane has not been found to be a chemical whose manufacture, processing, distribution in commerce, use, or disposal to present an unreasonable risk of injury to health or the environment.

Propane does not contain any Class 1 or Class 2 ozone-depleting chemicals. Propane is not a listed marine pollutant.

The Food and Drug Administration (FDA) has said propane is GRAS (generally recognized as safe) as a direct human food ingredient when used as a propellant, aerating agent and gas.

Normal combustion products of propane are carbon dioxide, nitrogen and water vapor. Incomplete combustion of propane can produce carbon monoxide (CO), a toxic gas, and various aldehydes; an eye and nose irritant. These can be produced both by gas appliances and internal combustion engines

#### SECTION 8 - SAFE HANDLING AND USE

Propane systems must be tested and proven leak free prior to use. Refer to National Fire Protection Association (NFPA) National Fuel Gas Code for further instructions.

Keep away from all sources of ignition, including heat, sparks and open flames. Never check for leaks with a lit match or flame. Use an approved leak detector solution or electronic leak detector.

All piping and equipment used for the handling, storage and use of propane must be specifically designed for that purpose. Refer to NFPA 54 National Fuel Gas Code and NFPA 58 Liquefied Petroleum Gas Code.

OSHA 29 CFR 1910.110, DOT 49 CFR 172.700 and NFPA 58 all require that persons handling LP gases be specially trained in proper handling and operating procedures, which must be documented by the employer. Only qualified persons should transport, operate, service and/or install propane systems and containers.

Propane vapor is heavier than air and can collect in low-lying areas, especially in the absence of wind or ventilation. Propane is a simple asphyxiant

Liquid propane can cause freeze burns, and appropriate personal protective equipment should be used whenever handling this product.

Propane cylinders should always be stored in an approved location with relief valves in direct communication with the vapor space, and with service valves closed and plugged when not in use. Refer to NFPA 58 for details of specific storage requirements.

Empty propane containers retain residue and should be treated as if full. Never drop or damage containers. Damaged or corroded and lealong containers should not be utilized. Contact your local Suburban Propane supplier immediately to report any problems. If container service valve fails to operate properly, discontinue use. Never insert any object into the pressure relief valve. Return unused propane to supplier for proper disposal.

#### SECTION 9 - EXPOSURE CONTROLS

Propane is Odorized: In its natural state, propane is odorless. An odorant has been added as a warning agent to detect its presence. This smell is characterized as "skunk-like" or having a "rotten egg" smell. It is important to recognize the smell of propane. If you are unsure about the smell of odorized propane, contact your local Suburban Propane Customer Service Center for a sample.

Detection of Odors: The faint odor of propane may occasionally be present, due to a pilot light outage, or a burner left partially open. Information regarding the effectiveness or intensity of odorants, is set forth in Section 3 above. If, after checking these items, a smell persists, contact your local Suburban Propane immediately.

Engineering Controls Provide ventilation in enclosed areas where accumulation of vapors may provide a flammable mixture. Where flammable mixtures may be present, specially designed electrical systems must be used in accordance with NFPA 70 National Electric Code

Respiratory Protection: For general use no protection is required. Under emergency conditions, concentrations may be high enough to warrant supplied-air or self-contained breathing apparatus. Under these conditions, a flammable atmosphere is likely and precautions should be taken to avoid ignition.

Eye Protection: Approved stretz glasses should be used whenever filling and handling propane containers.

Protective Clothing: To avoid skin contact with liquid propane, approved gloves that are impervious to propane should be worn along with clothing that will provide protection from liquid propane for the expected duration of exposure.

Other Protective Equipment: Safety shoes are recommended when handling cylinders.

#### SECTION 10 - EMERGENCY AND FIRST AID PROCEDURES

Contact with liquid propane can cause freeze burns similar to frostbite. Remove saturated clothing, shoes and jewelry immediately. Affected body parts should be gently flushed with or immersed in lukewarm water for 15 minutes. Seek redical attention.

If respiratory symptoms occur, get victim away from source and into fresh air. If breathing difficulties develop, qualified personnel may administer oxygen. If breathing or heartbeat cease, artificial respiration or cardiopulmonary resuscitation should be started immediately. Contact emergency medical responders at once.

If you smell the strong odor of propane indoors: Immediately evacuate and get away from the building. Turn off the pupply at the tank or shutoff valve at the meter or where gas enters the building. Call your nearest Suburban Propa Customer Service Center from a neighbor's house, or other phone away from immediate area. Do not use ANY electrical devices, including light switches and telephones. Do not light matches or use any open flame.

Tampering: Never tamper with any gas appliances, their controls, or any related equipment. Never force an appliance control valve. All gas appliances and related equipment must be serviced by a qualified service technician. Connecting and disconnecting tanks and cylinders to or from your main gas service should only be performed by a qualified LP-Gas technician.

If you run out of gas: If you are a customer, and you suspect you have run out of gas, contact your nearest Suburban Propane Customer Service Center immediately. By running out of gas, a potential safety hazard may exist, which requires us to perform a Leak Test before your system can be returned to service.

Know how to shut off the gas in event of an emergency: It is important to know the location of the tank or cylinder and shutoff valve(s), if present in your system. The so, vice valve can be turned off by turning the knob clock rise.

In the event of an accidental release or spill out of doors, these actions should be taken: Evacuate immediate area Eliminate all possible sources of ignition including heat, sparks and open flame. Provide maximum ventilation and shut off source(s) of leak if possible to do so safely. If cylinder or container is leaking, contact the nearest Suburban Propane supplier or local fire department. Never enter a vapor (white) cloud

Release without fire: Use a 'fogging' hose stream of water to break up and dissipate propane into the atmosphere. Stay uphill and upwind of release at all times.

elease with fire: Apply a direct stream of water to container in order to prevent overheating. Do not attempt to extingularine until source of leak is shut off. Water spray or "fog" should be used for adjacent areas and to dissipate liquid propane to atmosphere

Extinguishing Media: Class B fire-extinguishing media such as Halon, Co<sub>2</sub>, or dry chemical can be used. Water spray or fog is appropriate for surrounding areas. Do not extinguish flame until source of gas is shut off. Only those with specialized training should attempt fire fighting. For further information, refer to NPGA "Propane Emergencies" Text #7220

#### SECTION 11 – OTHER INFORMATION

This Material Safety Data Sheet, issued January 2004, was prepared by Safety Services of Suburban Propane and supercedes June 2001

#### **SECTION 12 - CONTACT INFORMATION**

For further information write to.

SUBURBAN PROPANE, L.P.
Safety Services
240 Route 10 West
P.O. Box 206
Whippany, NJ 07981-0206
Or call: (973) 887 - 5300

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. IMPLIED. This information and the product furnished is done so on condition that the person(s) receiving them shall make their own determination as to the suitability of the product for any specific purpose, and that they assume any and all risks associated with that use.

### MATERIAL SAFETY DATA SHEET FOR CANTESCO® FORMULA 300

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME CANTESCO® 300 REG TEMP TYPE I / REG TEMP LPGAS

PRODUCT IDENTIFIER : LEAK DETECTION COMPOUND TRODUCT USE : LEAK DETECTION COMPOUND

ITEM CODE(S) : 300-04, 300-08, 300-1G, 300-5G, 300-DR, LPI-08

300-115, 300-230, 300-4L, 300-20L, LPI-230

UPC BAR CODE(S) : 10225, 10001, 10230, 10235, 10240, 10190

FORMULA NAME : 300 FORMULA CODE : 57008 MSDS CODE : 20

E-MAIL ADDRESS : MSDS@CANTESCO.COM WEB ADDRESS : WWW.CANTESCO.COM

USA ADDRESS · CANTESCO CORPORATION USA

PMB 023 - 60 INDUSTRIAL PARKWAY

CHEEKTOWAGA, NY 14227

PH (716) 693-8206 FAX (716) 693-8373

CANADIAN ADDRESS : CANTESCO CORPORATION

13 - 5200 DIXIE ROAD MISSISSAUGA, ON L4W 1E4

PH (905) 624-5463 FAX (905) 624-2840 QUALITY MANAGER

PREPARED BY : QUALITY MANAGER

TELEPHONE : (905) 624-5463

EMERGENCY TELEPHONE : (613) 996-6666 (CANUTEC – Call collect)

PREPARATION DATE : MARCH 01, 2006 OSHA REGULATORY STATUS : NOT REGULATED WHMIS CLASSIFICATION : NOT REGULATED

#### TION 2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS	OSHA PEL	ACGIH TLV	LD50 SPECIES/ROUTE	LC50 SPECIES/ROUTE	%WT
NONE				1	- 21-	

#### **SECTION 3. HAZARDS IDENTIFICATION**

## **EMERGENCY OVERVIEW**

EYE. In accordance with FHSA/CPSC Guidelines product is not an eye irritant.

SKIN: In accordance with FHSA/CPSC Guidelines product is not a primary dermal irritant.

INGESTION: Effect of ingestion unknown, but major toxicity is not expected to occur.

INHALATION: No health effects anticipated from vapour.

EFFECTS OF ACUTE EXPOSURE: N/Av

EFFECTS OF CHRONIC EXPOSURE: No serious long-term health effects are anticipated.

OTHER IMPORTANT HAZARDS: None

SUGGESTED HMIS RATING: HEALTH | 1 | FLAMMABILITY | 0 | REACTIVITY | 0 | SPECIAL - NONE

EFFECTIVE: MARCH 01, 2006

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# SECTION 4. FIRST AID MEASURES

INHALATION: If someone has difficulty breathing after exposure to product, remove him or her to fresh air immediately. If breathing difficulty persists, contact a doctor

INGESTION: If swallowed, do not induce vomiting. Get medical attention right away.

EYE CONTACT: For eye contact, flush with water for at least 15 minutes.

SKIN CONTACT: For skin contact, wash with soap and water.

# **SECTION 5. FIRE FIGHTING MEASURES**

CONDITIONS OF FLAMMABILITY. Not flammable under normal conditions. Product is water based

MEANS OF EXTINCTION: N/Av

SPECIAL FIRE FIGHTING PROCEDURES: None UNUSUAL FIRE AND EXPLOSION HAZARDS. N/Av

FLASH POINT / DETERMINATION: None

UPPER FLAMMABLE LIMIT: None LOWER FLAMMABLE LIMIT: None

AUTO-IGNITION TEMPERATURE: Not known.

HAZARDOUS COMBUSTION PRODUCTS: If water component is driven off, and residue ignited, this product may release carbon dioxide, carbon monoxide, and oxides of nitrogen and sulphur.

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: Not sensitive.

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: Will not be ignited by exposure to static.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

LEAK / SPILL RESPONSE: Ensure that all spilled material is promptly cleaned up. Absorb with inert material such as vermiculite or paper towels, place in a chemical waste container for eventual disposal. Seal and label the container as waste. Dispose of in accordance with all federal, state, provincial and local regulations.

SPECIAL INSTRUCTIONS: Avoid contact with eyes, or prolonged contact with skin. Wash thoroughly after handling. Keep away from food, and out of reach of small children

#### TION 7. HANDLING AND STORAGE

HANDLING PROCEDURES / EQUIPMENT: Keep containers closed when not in use.

STORAGE REQUIREMENTS Store in a cool, dry area away from water-reactive chemicals such as sodium and potassium.

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# SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Safety glasses with side shields, or chemical splash goggles, are recommended when handling this product.

SKIN PROTECTION. Protective gloves not normally required. People with sensitive skin may prefer to wear water-proof gloves, such as rubber or neoprene, to avoid skin contact.

ENGINEERING CONTROLS. No special ventilation requirements. Special respiratory protection is not required for normal conditions of use of this product.

EXPOSURE GUIDELINE LEVELS: N/Ap.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE : Liquid

ODOR AND APPEARANCE : No odor, clear liquid

ODOR THRESHOLD : N/Ap SPECIFIC GRAVITY (H<sub>2</sub>O=1) : ~1.0

VAPOUR PRESSURE (mm HG) : Approximately that of water (24 mm Hg)

VAPOUR DENSITY (AIR=1) . 0.610 EVAPORATION RATE (BA=1) : 1.0

BOILING POINT (°F) : Approximately 200°F (93°C) FREEZING POINT (°F) : Approximately 27°F (-3°C)

H : 7.0

COEFFICIENT OF WATER/OIL
DISTRIBUTION : N/Ap
DENSITY : .998
SOLUBILITY IN WATER : Soluble
% VOLATILE BY VOLUME : N/Av

VOC'S : Less than 1

# **SECTION 10. STABILITY AND REACTIVITY**

STABILITY Normally stable.

CONDITIONS TO AVOID: Excessive heating.

MATERIALS TO AVOID (INCOMPATIBILITIES): Water-reactive chemicals such as sodium or potassium.

CONDITIONS OF REACTIVITY: N/Av

HAZARDOUS DECOMPOSITION BYPRODUCTS: If heated until water is driven off and decomposition begins, this product may release carbon dioxide, carbon monoxide, and oxides of nitrogen and sulphur.

HAZARDOUS POLYMERIZATION: Will not occur.

#### **SECTION 11.TOXICOLOGICAL INFORMATION**

LD50: N/Av

ROUTES OF ENTRY: INHALATION[N] EYE CONTACT[Y] SKIN CONTACT[N] SKIN ABSORPTION[N] INGESTION[N]

**EXPOSURE LIMITS: N/Av** 

IRRITANCY OF PRODUCT: Not known to be irritating.

SENSITIZATION TO PRODUCT / MEDICAL CONDITIONS AGGRAVATED: Not known to cause allergies.

CARCINOGENICITY: No ingredients known to be carcinogens.

TERATOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: No effects determined.

TOXICOLOGICAL DATA. N/Ap

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ENVIRONMENTAL EFFECTS Not known Not expected to have serious environmental effects in small quantities. IMPORTANT ENVIRONMENTAL CHARACTERISTICS None known. Product is water-based AQUATIC TOXICITY: Not known. Expected to have minimal toxicity.

# SECTION 13. DISPOSAL CONSIDERATIONS

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

# **SECTION 14. TRANSPORTATION INFORMATION**

SPECIAL SHIPPING INFORMATION : None

DOT HM-181 SHIPPING INFORMATION

PROPER SHIPPING NAME : Not regulated

HAZARD CLASS OR DIVISION . none UN NUMBER : none PACKAGING GROUP : none LABEL(S) REQUIRED : none

TDG SHIPPING INFORMATION

TDG SHIPPING NAME : Not regulated

TDG CLASSIFICATION : none UN NUMBER : none PACKING GROUP : none LABEL(S) REQUIRED : none NAERG : none

EMERGENCY TELEPHONE NUMBER . (613) 996-6666

TERNATIONAL TRANSPORT INFORMATION

PROPER SHIPPING NAME : Not regulated:

CLASS OR DIVISION : none SUBSIDIARY RISK : none HAZARDOUS LABEL(S) : none PACKAGING GROUP : none UN OR ID NUMBER : none

# **SECTION 15. REGULATORY INFORMATION**

TOXIC SUBSTANCES CONTROL ACT (TSCA): The product on this MSDS, or all of its components, is listed under TSCA. SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: None

CLEAN AIR ACT (CAA): The following ingredients appear on the List of Hazardous Air Pollutants (HAP – 42 USC 7412, Title I, Part A, p112): None

CLEAN WATER ACT (CWA): The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): None CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list(s): None

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL): The product on this MSDS, or all of its components, is included in the DSL.

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#### SECTION 16. OTHER INFORMATION

. N/E' -- Not Established los e Not Available N/Av N/Ap Not Applicable والمناه المناه والمناه ARC International Agency for Research on Cancer American Conference of Governmental Industrial Hygienists ACGIH National Institute for Occupational Health and Safety NIOSH TLV-TWA Threshold Limit Values, Time Weighted Average North American Emergency Response Guidebook NAERG **WHMIS** Workplace Hazardous Materials Information System

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Cantesco Corporation provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Cantesco Corporation. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Cantesco Corporation is an ISO 9001:2000 registered company.

# ADDITIONAL INFORMATION REPLY FORM - PLEASE FAX OR EMAIL BACK

# PLEASE ADD ME TO YOUR MSDS DATA BASE FOR PRODUCT UPDATES:

NAME	TITLE / DEPT	
FIRM		
ADDRESS		
CITY		
STATE / PROV	ZIP / POSTAL CODE	
PHONE	FAX	
EMAIL		
ADDRESS		

# PLEASE SEND ME INFORMATION ON THE FOLLOWING CANTESCO® PRODUCTS:

WELDING CHEMICAL PRODUCTS	
AUTOMOTIVE, TRUCK & BUS FLEET WASH PRODUCTS	
CONSUMER CLEANING PRODUCTS	
INDUSTRIAL & INSTITUTIONAL CLEANERS	
HVAC CHEMICAL PRODUCTS	

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# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3 0 Revision Date 07/14/2007 Print Date 09/13/2007

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

2-Methylbutane

Product Number

59070

Brand

Fluka

Company

Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Fax

+1 800-325-5052

Emergency Phone #

(314) 776-6555

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Isopentane

Formula

C5H12

Molecular Weight

72.15 g/mol

CAS-No	EC-No.	Index-No.	Concentration [%]
Isopentane			
78-78-4	201-142-8	601-006-00-1	-

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** 

Flammable Liquid

Delayed target organ effects

**Target Organs** 

Central nervous system, Heart, Liver

# **HMIS Classification**

Health Hazard. 0

Chronic Health Hazard. \*

Flammability 4

Physical hazards: 0

# **NFPA Rating**

Health Hazard: 0

Fire: 4

Reactivity Hazard. 0

**Potential Health Effects** 

**DICE 01483** 

Fluka - 59070

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Page 1 of 6

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness.

Skin May be harmful if absorbed through skin. May cause skin irritation. Repeated

exposure may cause skin dryness or cracking.

Eyes May cause eye irritation.

Ingestion Aspiration hazard if swallowed - can enter lungs and cause damage. May be

..... = . ... = . .

harmful if swallowed

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance Move out of dangerous area

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician

#### In case of skin contact

Wash off with soap and plenty of water Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIRE-FIGHTING MEASURES

# Flammable properties

Flash point -51 °C (-60 °F) - closed cup

Ignition temperature 420 °C (788 °F)

# Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# Specific hazards

Flash back possible over considerable distance. Container explosion may occur under fire conditions. Vapours may form explosive mixture with air.

# Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

# **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not let product enter drains.

# Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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#### 7. HANDLING AND STORAGE

# Handling

Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

# Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Refrigerate before opening. Handle and open container with care.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Isopentane	78-78-4	TWA	600 ppm	1998-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
Remarks	1998 Adopt	ion.		<del>- •</del>	

# Personal protective equipment

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form

liquid, clear

Colour

colourless

**DICE 01485** 

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Safety data

pH no data available

Melting point no data available

Boiling point 28 - 29 °C (82 - 84 °F) at 1,013 hPa (760 mmHg)

Flash point -51 °C (-60 °F) - closed cup

Ignition temperature 420 °C (788 °F)

Lower explosion limit 1.4 %(V)
Upper explosion limit 8.3 %(V)

Vapour pressure 769.92 hPa (577 49 mmHg) at 20 °C (68 °F)

2,355.26 hPa (1,766.59 mmHg) at 55 °C (131 °F)

Density 0.620 g/cm3

Water solubility no data available

Vapour density 2 49

-(Air = 1.0)

# 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Conditions to avoid

Heat, flames and sparks.

# Materials to avoid

Oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides

# Hazardous reactions

Vapours may form explosive mixture with air.

# 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

no data available

# Irritation and corrosion

no data available

#### Sensitisation

no data available

# Chronic exposure

no data available

**DICE 01486** 

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Potential Health Effects**

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Fluka - 59070

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness

Skin

May be harmful if absorbed through skin. May cause skin irritation Repeated

exposure may cause skin dryness or cracking.

Eyes

May cause eye irritation.

Ingestion

Aspiration hazard if swallowed - can enter lungs and cause damage. May be

harmful if swallowed

**Target Organs** 

Central nervous system, Heart, Liver,

#### 12. ECOLOGICAL INFORMATION

# Elimination information (persistence and degradability)

no data available

# **Ecotoxicity effects**

no data available

#### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 13. DISPOSAL CONSIDERATIONS

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product

# 14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 1265 Class: 3

Packing group: I

Proper shipping name: Pentanes

IMDG

UN-Number: 1265 Class: 3

Packing group: I

EMS-No: F-E, S-D

Proper shipping name: PENTANES

Marine pollutant<sup>,</sup> No

IATA

UN-Number: 1265 Class. 3

Packing group: I

Proper shipping name: Pentanes

# 15. REGULATORY INFORMATION

# **OSHA** Hazards

Flammable Liquid, Delayed target organ effects

#### **TSCA Status**

On TSCA Inventory

#### **DSL Status**

All components of this product are on the Canadian DSL list.

**DICE 01487** 

# SARA 302 Components

SARA 302. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Fluka - 59070

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**SARA 313 Components** 

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

e nernancese

# SARA 311/312 Hazards

Fire Hazard, Chronic Health Hazard

# Massachusetts Right To Know Components

	CAS-No.	Revision Date
Isopentane	78-78-4	1989-12-01

Pennsylvania Right To Know Components

Isopentane CAS-No. Revision Date 1989-12-01

**New Jersey Right To Know Components** 

| CAS-No. | Revision Date | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 1989-12-01 | 198

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# **16. OTHER INFORMATION**

#### **Further information**

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**DICE 01488** 

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# MATERIAL SAFETY DATA SHEET

Date Printed: 09/13/2007 Date Updated: 02/01/2006

Version 1.3

# Section 1 - Product and Company Information

Product Name POLY (ISOBUTYLENE) STANDARD: 2: 5:00;

GPC

81566 Product Number

Brand FLUKA

Company Sigma-Aldrich

Address 3050 Spruce Street

SAINT LOUIS MO 63103 US

Technical Phone: 800-325-5832 800-325-5052 Fax:

Emergency Phone: 314-776-6555

# Section 2 - Composition/Information on Ingredient .

CAS # Substance Name SARA 313 9003-27-4 No

POLY(ISOBUTYLENE) STANDARD 10'000,

FOR GPC

Formula C4H8

Synonyms Polyisobutylene

RTECS Number: UD1010000

# Section 3 - Hazards Identification

#### HMIS RATING

HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0

# NFPA RATING

HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0

# For additional information on toxicity, please refer to Section 11.

#### Section 4 - First Aid Measures

# ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air.

# DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

# Section 5 - Fire Fighting Measures

#### CONDITIONS OF FLAMMABILITY

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air.

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

# Section 6 - Accidental Release Measures

# PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

# Section 7 - Handling and Storage

#### HANDLING

User Exposure: Use protective clothing, gloves, and mask. Do not get in eyes, on skin, on clothing. Do not breathe dust.

#### STORAGE

Suitable: Keep tightly closed. Store in a cool dry place.

# Section 8 - Exposure Controls / PPE

#### ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

# PERSONAL PROTECTIVE EQUIPMENT

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

# Section 9 - Physical/Chemical Properties

Appearance Color: Faintly yellow

Form: Clear liquid

**DICE 01490** 

FLUKA - 81566

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Page 2 W

Property	. Value	·At-Temperature	or Pressure
Molecular Weight	N/A		-
рН	N/A	•	-
BP/BP Range	N/A	4	
MP/MP Range	N/A		
Freezing Point	N/A	<u>-</u> .	
Vapor Pressure	N/A		
Vapor Density	N/A		
Saturated Vapor Conc.	N/A		
SG/Density	0.92 g/cm3		
Bulk Density	N/A		
Odor Threshold	N/A		
Volatile%	N/A		
VOC Content	N/A		
Water Content	N/A		
Solvent Content	N/A		
Evaporation Rate	N/A		
Viscosity Surface Tension	N/A		
Partition Coefficient	N/A N/A		
Decomposition Temp.	N/A N/A		
Flash Point	N/A N/A		
Explosion Limits	N/A		
Flammability	N/A		
Autoignition Temp	N/A		
Refractive Index	1.5045		
Optical Rotation	N/A		
Miscellaneous Data	N/A		
Solubility	N/A		
NI/A not orrailable			
N/A = not available  Section 10 - Stability	and Reactivity		
			<del></del>
STABILITY			
Stable: Stable.			
Materials to Avoid:	Strong oxidizing	agents.	
HAZARDOUS DECOMPOSITION	PRODUCTS		
		rbon monoxide, Carbo	n dioxide.
*			
HAZARDOUS POLYMERIZATIO	N		
Hazardous Polymeriza	ation: Will not o	ccur	
Garbina 11 maria 1 and			
Section 11 - Toxicologi	.cal information		···-
ROUTE OF EXPOSURE			
Skin Contact: May ca			
Eye Contact: May cau	ise eye irritatio	n.	
Multiple Routes: May	be harmful by i	nhalation, ingestion	, or
skin absorption.		,	
GTGNG AND GUNDHONG OF F	TTD A GIID E		
SIGNS AND SYMPTOMS OF E		omical mbusical as	۵
To the best of our k			
toxicological proper	ties have not be	- Incroughly invest.	
Section 12 - Ecological	Information		
No data available.			
Section 13 - Disposal C	onsiderations		DICE 01491
-			

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve or mix the material with a combustible solvent and burn
in a chemical incinerator equipped with an afterburner and
scrubber. Observe all federal, state, and local environmental
regulations.

# Section 14 - Transport Information

#### DOT

Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport. \\\\

# Section 15 - Regulatory Information

# UNITED STATES REGULATORY INFORMATION SARA LISTED: NO TSCA INVENTORY ITEM: Yes

# CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

# Section 16 - Other Information

# DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

**DICE 01492** 

Page

# SIGMA-ALDRICH

# MATERIAL SAFETY DATA SHEET

Date Printed: 09/13/2007 Date Updated: 01/30/2006 Version 1:5

# Section 1 - Product and Company Information

PENTANE, ANHYDROUS, 99+% Product Name

Product Number 236705 Brand ALDRICH

Company Sigma-Aldrich 3050 Spruce Street Address SAINT LOUIS MO 63103 US

Technical Phone: 800-325-5832 Fax: 800-325-5052 Emergency Phone: - 314-776-6555

# Section 2 - Composition/Information on Ingredient

CAS # SARÄ 313 Substance Name N-PENTANE 109-66-0 No

Formula C5H12

Amyl hydride \* Pentan (Polish) \* Pentane (ACGIH:OSHA) \* Pentanen (Dutch) \* Pentani Synonyms

(Italian) \* Skellysolve A

RZ9450000 RTECS Number:

# Section 3 - Hazards Identification

# EMERGENCY OVERVIEW

Flammable (USA) Extremely Flammable (EU). Harmful. Dangerous for the environment.

Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

Target organ(s): Nerves. Heart.

# HMIS RATING

HEALTH: 1\*

FLAMMABILITY: 4 REACTIVITY: 0

# NFPA RATING

HEALTH: 1

FLAMMABILITY: 4 REACTIVITY: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

# Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

# DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician ..... Link which are to high

# EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

# Section 5 - Fire Fighting Measures

# FLAMMABLE HAZARDS

Flammable Hazards: Yes and the first of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of

# EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition and flash back. Container explosion can occur under fire conditions. In advanced or massive fires the area should be evacuated and the fire should be fought from a remote explosion-resistant location.

#### FLASH POINT

- 57.0 °F - 49.0 °C Method: closed cup

#### EXPLOSION LIMITS

Lower: 1.4 % Upper: 8.3 %

# ~ AUTOIGNITION TEMP

260 °C

# FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. -Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

# Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area. Shut off all sources of ignition.

**DICE 01494** 

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy

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rubber gloves.

# METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

# Section 7 - Handling and Storage

# HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Open carefully.

#### STORAGE

Suitable: Keep container closed (Keep away from heat, sparks, and open flame. Store in a cool dry place. Store under nitrogen.

# SPECIAL REQUIREMENTS

May develop pressure. Refrigerate before opening.

# Section 8 - Exposure Controls / PPE

#### ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

# PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

# EXPOSURE LIMITS, RTECS

Country Source Type Value USA ACGIH TWA 600 PPM

USA MSHA Standard-air TWA 500 PPM (1475 MG/M3)

USA OSHA. PEL 8H TWA 1000 PPM (2950 MG/M3)

New Zealand OEL

Remarks: check ACGIH TLV

USA NIOSH TWA 120 PPM
Ceiling co610 PPM/15M

#### EXPOSURE LIMITS

Country Source Type Value
Poland NDS 1800 MG/M3
Poland NDSCh 2300 MG/M3
Poland NDSP -

TOTAIIQ NDSI

# Section 9 - Physical/Chemical Properties

DICE 01495

Appearance Physical State: Clear liquid

Color: Colorless

```
Value At Temperature or Pressure
Property
Molecular Weight
                      72.15 AMU
                      35.0-36.0 °C - -----
BP/BP Range
                      - 130.0 °C
N/A
MP/MP Range
Freezing Point N/A
Vapor Pressure 434.28 mmHg 20 °C
Vapor Density 2.48 g/l
Saturated Vapor Conc. N/A
SG/Density 0.626 g/cm3
Bulk Density
                      N/A
Odor Threshold
                      N/A
                      N/A
Volatile%
VOC Content
                      N/A
                      < 0.01 %
Water Content
                     N/A
Solvent Content
Evaporation Rate
                      N/A
                      N/A
Viscosity
                      N/A
Surface Tension
Partition Coefficient
                      Log Kow: 3.39
Decomposition Temp.
                      N/A
                      - 57.0 °F
Flash Point
                                        Method: closed cup
                       - 49.0 °C
                      Lower: 1.4 %
Explosion Limits
                      Upper: 8.3 %
Flammability
                      N/A
                      260 °C
Autoignition Temp
Refractive Index
                      1.358
Optical Rotation
                      N/A
Miscellaneous Data
                      N/A
Solubility
                      N/A
N/A = not available
Section 10 - Stability and Reactivity
STABILITY
   Stable: Stable.
  Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
  Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.
HAZARDOUS POLYMERIZATION
  Hazardous Polymerization: Will not occur
Section 11 - Toxicological Information
ROUTE OF EXPOSURE
  Skin Contact: May cause skin irritation.
  Skin Absorption: May be harmful if absorbed through the skin.
  Eye Contact: May cause eye irritation.
  Inhalation: Material may be irritating to mucous membranes and
  upper respiratory tract. May be harmful if inhaled.
  Ingestion: May be harmful if swallowed.
TARGET ORGAN(S) OR SYSTEM(S)
                                                           DICE 01496
  Lungs. Heart. Central nervous system.
```

SIGNS AND SYMPTOMS OF EXPOSURE

Contact with eyes can cause redness, tearing, and blurred vision. Prolonged or repeated contact with skin can cause defatting and dermatitis. CNS depression. Damage to the lungs.

#### TOXICITY DATA

Inhalation Rat 364,000 mg/m3 LC50

Intravenous Mouse 446 MG/KG LD50

# Section 12 - Ecological Information

#### ACCUMULATION

Bioaccumulation Potential: Indication of bioaccumulation.

ACUTE ECOTOXICITY TESTS
Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 48 h

Value: 9.74 mg/l

ADDITIONAL RESULTS/DATA FROM RELEVENT SCIENTIFIC EXPERIMENTS Because of harmful effects on water organisms, this material should not be introduced into drains. Avoid contamination of the environment

# Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

# Section 14 - Transport Information

#### DOT

Proper Shipping Name: Pentanes

UN#: 1265 Class: 3

Packing Group: Packing Group II Hazard Label: Flammable liquid

PIH: Not PIH

#### IATA

Proper Shipping Name: Pentanes

IATA UN Number: 1265 Hazard Class: 3 Packing Group: II

Section 15 - Regulatory Information

DICE 01497

1 75 7

# EU DIRECTIVES CLASSIFICATION

Symbol of Danger: F+-Xn-N

Indication of Danger: Extremely Flammable. Harmful. Dangerous for the environment.

R: 12-51/53-65-66-67

Risk Statements: Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

S: 9-16-29-33-61-62

Safety Statements: Keep container in a well-ventilated place.—Keep away from sources of ignition - no smoking. Do not empty into drains. Take precautionary measures against static discharges. Avoid release to the environment. Refer to special instructions/safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Extremely Flammable (EU). Harmful. Dangerous for the environment.

Risk Statements: Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

Safety Statements: Keep container in a well-ventilated place. Keep away from sources of ignition - no smoking. Do not empty into drains. Take precautionary measures against static discharges. Avoid release to the environment. Refer to special instructions/safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

US Statements: Target organ(s): Nerves. Heart.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

# CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

# Section 16 - Other Information

# DISCLAIMER

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#### WARRANTY

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# SIGMA-ALDRICH

# Material Safety Data Sheet

Version 3.0 Revision Date 07/15/2007. Print Date 09/13/2007

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Heptane

**Product Number** 

34936

Brand

: Riedel

Company

Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Fax

+1 800-325-5052

Emergency Phone #

: (314) 776-6555

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

C7H16

Molecular Weight

100.21 g/mol

CAS-No.	EC-No.	Index-No.	Concentration [%]
Heptane			
142-82-5	205-563-8	601-008-00-2	-

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** 

Flammable Liquid

**Target Organs** 

Central nervous system, Heart, Lungs, ears

# **HMIS Classification**

Health Hazard: 1

Chronic Health Hazard: \*

Flammability: 3

Physical hazards: 0

# **NFPA Rating**

Health Hazard: 2

Fire 3

Reactivity Hazard 0

# **Potential Health Effects**

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

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Eyes

Ingestion

May cause eye irritation.

Aspiration hazard if swallowed - can enter lungs and cause damage. May be

harmful if swallowed.

# 4. FIRST AID MEASURES

#### General advice

Consult a physician Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water Consult a physician

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point

-4.0 °C (24.8 °F) - closed cup

Ignition temperature

223 °C (433 °F)

#### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# Specific hazards

Flash back possible over considerable distance.

# Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information

Use water spray to cool unopened containers. In case of fire: Evacuate area and fight fire remotely due to the risk of explosion.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods for cleaning up -

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

# 7. HANDLING AND STORAGE

Handling

**DICE 01502** 

Avoid contact with skin and eyes Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Store under inert gas.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS-No.	Value	Control parameters	Update	Basis
Heptane	142-82-5	TWA	400 ppm 1,640 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs)
		STEL	500 ppm 2,050 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs)
		TWA	400 ppm 1,600 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A
		STEL	500 ppm 2,000 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A
	,	TWA	500 ppm 2,000 mg/m3	1993-06-30	US. Department of Labor - Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) 29 CFR 1910.1000 Air Contaminants.

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# Personal protective equipment

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Hand protection

For prolonged or repeated contact use protective gloves.

# Eye protection

Safety glasses

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form

liquid

Colour

no data available

#### Safety data

pН

no data available

Melting point

-91.0 °C (-131.8 °F)

Boiling point

98.0 - 99.0 °C (208.4 - 210.2 °F)

Flash point

-4.0 °C (24.8 °F) - closed cup

Ignition temperature

223 °C (433 °F)

Lower explosion limit

1.1 %(V)

Upper explosion limit

7 %(V)

Vapour pressure

110.7 hPa (83.0 mmHg) at 37.7 °C (99.9 °F)

53.3 hPa (40.0 mmHg) at 20 0 °C (68.0 °F)

Density

0.68 g/cm3

Water solubility

insoluble

Partition coefficient:

log Pow: > 3.00

n-octanol/water

# 10. STABILITY AND REACTIVITY

# Storage stability

Stable under recommended storage conditions.

# Conditions to avoid

Heat, flames and sparks.

# Materials to avoid

Strong oxidizing agents

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# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides

#### Hazardous reactions

Vapours may form explosive mixture with air.

#### 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

LC50 Inhalation - rat - 4 h - 103,000 mg/m3

# Irritation and corrosion

no data available

# Sensitisation

no data available

# Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

mpharie . . . . .

#### Signs and Symptoms of Exposure

Prolonged or repeated exposure to skin causes defatting and dermatitis., Central nervous system depression, narcosis, Damage to the lungs.

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours may

cause drowsiness and dizziness.

Skin May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

Ingestion Aspiration hazard if swallowed - can enter lungs and cause damage. May be

harmful if swallowed.

Target Organs Central nervous system, Heart, Lungs, ears,

#### 12. ECOLOGICAL INFORMATION

# Elimination information (persistence and degradability)

# **Ecotoxicity effects**

invertebrates.

Toxicity to fish LC50 - Carassius auratus (goldfish) - 4.00 mg/l - 24 h

LC50 - other fish - 375 mg/l - 96 h

Toxicity to daphnia and other aquatic

EC50 - Daphnia magna (Water flea) - 1.50 mg/l - 48 h

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do not empty into drains. Avoid release to the environment.

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# 13. DISPOSAL CONSIDERATIONS

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 1206 Class: 3

Packing group: II

Proper shipping name: Heptanes

**IMDG** 

UN-Number, 1206 Class: 3

Packing group: II

EMS-No. F-E, S-D

حاليات المشكرة بالخيافي والمتاف والمالية

Proper shipping name: HEPTANES

Marine pollutant: No

IATA

UN-Number 1206 Class: 3

Packing group. II

Proper shipping name Heptanes

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Flammable Liquid

#### **TSCA Status**

On TSCA Inventory

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### **SARA 302 Components**

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Fire Hazard

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# **Massachusetts Right To Know Components**

CAS-No.	Revision Date
142-82-5	1989-12-01

# Pennsylvania Right To Know Components

Heptane	CAS-No. 142-82-5	Revision Date 1989-12-01
New Jersey Right To Know Components	,	

	CAS-NO.	Revision Date
Heptane	142-82-5	1989-12-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**DICE 01506** 

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# **16. OTHER INFORMATION**

# **Further information**

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**DICE 01507** 

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Sigma-Aldrich Corporation www sigma-aldrich com

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# MATERIAL SAFETY DATA SHEET

Date Printed: 09/13/2007 Date Updated: 02/02/2006

Version 1.4

# Section 1 - Product and Company Information

Product Name ETHANETHIOL, 97%

Product Number

Brand

E3708 ALDRICH

Company Address

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS MO 63103 US

Technical Phone:

Fax:

800-325-5832 800-325-5052 314-776-6555

Emergency Phone:

Section 2 - Composition/Information on Ingredient

Substance Name

CAS #

SARA 313

No

ETHANETHIOL

75-08-1

Formula

C2H6S

Synonyms

Aethanethiol (German) \* Aethylmercaptan (German) \* Etantiolo (Italian) \* Ethaanthiol (Dutch) \* Ethanethiol (OSHA) \* Ethyl hydrosulfide \* Ethylmercaptaan (Dutch) \* Ethyl mercaptan (ACGIH:OSHA) \* Ethylmerkaptan (Czech) \* Ethyl sulfhydrate \* Ethyl thioalcohol \* Etilmercaptano

(Italian) \* LPG ethyl mercaptan 1010 \*

Thioethanol \* Thioethyl alcohol

RTECS Number:

KI9625000

Section 3 - Hazards Identification

# EMERGENCY OVERVIEW

Flammable (USA) Highly Flammable (EU). Harmful. Dangerous for the environment.

Harmful by inhalation and if swallowed. Irritating to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

May develop pressure. Stench.

HMIS RATING

HEALTH: 2

FLAMMABILITY: 4 REACTIVITY: 0

NFPA RATING

HEALTH: 2

FLAMMABILITY: 4 REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

# ORAL EXPOSURE

153<u>2</u> = 151 If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

# Section 5 - Fire Fighting Measures

#### FLAMMABLE HAZARDS

Flammable Hazards: Yes

# EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

#### FLASH POINT

- 49.0 °F - 45.0 °C Method: closed cup

#### EXPLOSION LIMITS

Lower: 2.8 % Upper: 18.2 %

# AUTOIGNITION TEMP

299 °C

# FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

## FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers.

#### Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area. Shut off all sources of ignition.

DICE 01509

# PROCEDURE(S) OF PERSONAL PRECAUTION(S)

15 24 20

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered (Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran Bangaran B containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

# Section 7 - Handling and Storage

#### HANDLING

User Exposure: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### **STORAGE**

Suitable: Keep tightly closed. Keep away from heat, sparks, and

Incompatible Materials: Avoid contact with metals.

# SPECIAL REQUIREMENTS

Refrigerate before opening.

# Section 8 - Exposure Controls / PPE

#### ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

# PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

# GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

# EXPOSURE LIMITS, RTECS

Country Source Type Value USA 0.5 PPM ACGIH TWA

0.5 PPM (1 MG/M3) USA MSHA Standard-air TWA CL 10 PPM (25 MG/M3) USA OSHA.  $\mathtt{PEL}$ 

New Zealand OEL

Remarks: check ACGIH TLV

USA NIOSH Ceiling co0.5 PPM

# EXPOSURE LIMITS

. Value Country Source Type Poland 1 MG/M3 NDS Poland NDSCh 2 MG/M3 Poland NDSP

# Section 9 - Physical/Chemical Properties

Physical State: Clear liquid Appearance

Color: Colorless

Odor: Stench.

**DICE 01510** 

1.7

Value - At Temperature or Pressure Property Molecular Weight 62.13 AMU - - Hq N/A34.0 - 37.0 °C BP/BP Range MP/MP Range  $A \setminus N$ Freezing Point N/A20 °C · ··· : Vapor Pressure 439.967 mmHg Vapor Density 2.1 g/lSaturated Vapor Conc. N/A SG/Density  $0.84 \, \text{g/cm}3$ Bulk Density-----N/AOdor Threshold N/AVolatile% N/A VOC Content N/AWater Content N/ASolvent Content N/AEvaporation Rate N/AViscosity N/ASurface Tension N/A Partition Coefficient N/ADecomposition Temp. N/AMethod: closed cup Flash Point - 49.0 °F - 45.0 °C Explosion Limits Lower: 2.8 % Upper: 18.2 % Flammability A/NAutoignition Temp 299 °C Refractive Index 1.43 Optical Rotation N/AMiscellaneous Data N/ASolubility N/A

#### N/A = not available

# Section 10 - Stability and Reactivity

#### STABILITY

Materials to Avoid: Oxidizing agents, Metals.

# HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur oxides.

# HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

# Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material may be irritating to mucous membranes and

upper respiratory tract. Harmful if inhaled.

Ingestion: Harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Prolonged exposure can cause: Nausea, headache, and vomiting. Exposure can cause: Narcotic effect.

TOXICITY DATA

```
Oral
                                               7--
   Rat.
                                              - - T.
   682 \text{ mg/kg}
   LD50
   Remarks: Behavioral: Muscle weakness. Behavioral: Ataxia. Lungs,
   Thorax, or Respiration: Cyanosis.
   Inhalation
   Rat
   4,420 ppm
  -LC50 ---- -
   Remarks: Lungs, Thorax, or Respiration: Cyanosis.
   Behavioral: Excitement. Peripheral Nerve and Sensation: Spastic
   paralysis with or without sensory change.
   Intraperitoneal
   Rat
   226 MG/KG
   LD50
   Remarks: Behavioral: Muscle weakness. Behavioral: Ataxia. Lungs,
   Thorax, or Respiration: Cyanosis.
   Inhalation
   Mouse
   2,770 ppm
   LC50
   Remarks: Lungs, Thorax, or Respiration: Cyanosis.
   Behavioral: Change in motor activity (specific assay).
   Behavioral: Excitement.
IRRITATION DATA
   Skin
   Rabbit.
   500 mg
   Remarks: Mild irritation effect
   Rabbit
   84 mg
   Eyes
   Rabbit
   100 mg
   24H
   Remarks: Moderate irritation effect
Section 12 - Ecological Information
No data available.
                                                                   DICE 01512
Section 13 - Disposal Considerations
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
  Contact a licensed professional waste disposal service to dispose
   of this material. Burn in a chemical incinerator equipped with an
   afterburner and scrubber but exert extra care in igniting as this
   material is highly flammable. Observe all federal, state, and
   local environmental regulations.
```

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DOT

Proper Shipping Name: Ethyl mercaptan

UN#: 2363 Class: 3

Packing Group: Packing Group I Hazard Label: Flammable liquid

PIH: Not PIH

#### IATA

Proper Shipping Name: Ethyl mercaptan

IATA UN Number: 2363 Hazard Class: 3 Packing Group: I

Not Allowed - Aircraft: Cargo aircraft only. Not

permitted on passenger aircraft.

# Section 15 - Regulatory Information

# EU DIRECTIVES CLASSIFICATION

Symbol of Danger: F-Xn-N

Indication of Danger: Highly Flammable. Harmful. Dangerous for the environment.

R: 11-20-50/53

Risk Statements: Highly flammable. Harmful by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S: 16-25-60-61

Safety Statements: Keep away from sources of ignition - no smoking. Avoid contact with eyes. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

# US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Highly Flammable (EU). Harmful. Dangerous for the environment.

Risk Statements: Harmful by inhalation and if swallowed. Irritating to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. US Statements: May develop pressure. Stench.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

# CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

DISCLAIMER -

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact—with the above product. See reverse side—of invoice——or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



Material Safety Data Sheet

2-Methylbutane, spectrophotometric grade, 99+%

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 

2-Methylbutane, spectrophotometric grade, 99+%

Catalog Numbers:

16784-0000, 16784-0010, 16784-0250, 16784-2500

Synonyms:

Isopentane

Company Identification:

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification: (USA)

Acros Organics One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call: For information in Europe, call: 800-ACROS-01 +32 14 57 52 11

**Emergency Number, Europe: Emergency Number US:** 

+32 14 57 52 99 201-796-7100

**CHEMTREC Phone Number, US:** 

800-424-9300

**CHEMTREC Phone Number, Europe:** 

703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#

**Chemical Name:** 

% EINECS#

78-78-4 2-Methylbutane, spectrophotometric grade

201-142-8

Hazard Symbols:



XN F+ N



**Risk Phrases:** 

12 51/53 65 66 67

## **Section 3 - Hazards Identification EMERGENCY OVERVIEW**

Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

#### **Potential Health Effects**

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

**Ingestion:** May cause headache. May cause nausea and vomiting. May cause lung damage.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

Chronic:

#### Section 4 - First Aid Measures

**DICE 01515** 

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

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**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes.

**Ingestion:** Do not induce vomiting. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing,

give artificial respiration. If breathing is difficult, give oxygen. Get medical

aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

**General** As in any fire, wear a self-contained breathing apparatus in pressure-**Information:** demand, MSHA/NIOSH (approved or equivalent), and full protective q

demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Extremely

flammable liquid and vapor.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use foam, dry chemical, or

carbon dioxide. Water may be ineffective.

**Section 6 - Accidental Release Measures** 

**General** Use proper personal protective equipment as indicated in Section 8.

Information: Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then

place in suitable container. Remove all sources of ignition.

**Section 7 - Handling and Storage** 

Handling: Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor,

mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary

measures against static discharges.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly

closed container. Refrigerator/flammables.

**Section 8 - Exposure Controls, Personal Protection** 

**Engineering Controls:** 

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Exposure Limits** 

CAS# 78-78-4:

Germany: 1000 ppm TWA; 3000 mg/m3 TWA

**Personal Protective Equipment** 

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are

experienced.

**Section 9 - Physical and Chemical Properties** 

Physical State: Clear liquid

Color: colorless
Odor: gasoline-like
pH: Not available

Vapor Pressure: 990 mbar @20 deg C

Viscosity: Not available

**Boiling Point:** 30 deg C @ 760.00mm Hg ( 86.00°F)

Freezing/Melting Point: -160 deg C ( -256.00°F) Autoignition Temperature: 420 deg C (788.00 deg F)

Flash Point: -51 deg C ( -59.80 deg F)

Explosion Limits: Lower: 1.40 vol % Explosion Limits: Upper: 7.60 vol % **Decomposition Temperature:** Not available Solubility in water: insoluble in water

Specific Gravity/Density: .6200g/cm3 Molecular Formula: C2H5CH(CH3)2

Molecular Weight: 72.15

#### Section 10 - Stability and Reactivity

**Chemical Stability:** 

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials Not available

**Hazardous Decomposition Products** 

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization** 

Will not occur.

#### Section 11 - Toxicological Information

RTECS#:

CAS# 78-78-4: EK4430000

LD50/LC50:

RTECS:

**CAS# 78-78-4:** Inhalation, mouse: LC50 = 150000 mg/m3/2H;

Inhalation, rat: LC50 = 280000 mg/m3/4H;

Carcinogenicity: 2-Methylbutane, spectrophotometric grade - Not listed as a carcinogen by

ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Not available

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	PENTANES	PENTANES, LIQUID	PENTANES
Hazard Class:	3	3	3
UN Number:	1265	1265	1265
Packing Group:	I	I	I

#### Section 15 - Regulatory Information

#### **European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F+ N

Risk Phrases:

R 12 Extremely flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- R 65 Harmful: may cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

#### Safety Phrases: - ---------

- S 9 Keep container in a well-ventilated place.
- S 16 Keep away from sources of ignition No smoking.
- S 29 Do not empty into drains.

age 5 m

- S 33 Take precautionary measures against static discharges.
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 78-78-4: 1

Canada

CAS# 78-78-4 is listed on Canada's DSL List

#### **US Federal**

TSCA

CAS# 78-78-4 is listed on the TSCA Inventory.

#### Section 16 - Other Information

MSDS Creation Date: 7/16/1996 Revision #1 Date 7/05/2000

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

B66W311 08 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NUMBER Health Flammability B66W311 Reactivity PRODUCT NAME SHER-CRYL\* HPA High Performance Acrylic Gloss Coating, Extra White/Tint MANUFACTURER'S NAME EMERGENCY TELEPHONE NO. THE SHERWIN-WILLIAMS COMPANY (216) 566-2917 101 Prospect Avenue N.W. Cleveland, OH 44115 DATE OF PREPARATION INFORMATION TELEPHONE NO. (216) 566-2902 09-OCT-05 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS CAS No. INGREDIENT UNITS VAPOR PRESSURE % by WT 111-77-3 2-(2-Methoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 1 mm 14 13463-67-7 Titanium Dioxide ACGIH TLV 10 mg/m3 as Dust
OSHA PEL 10 mg/m3 Total Dust
OSHA PEL 5 mg/m3 Respirable Fraction Section 3 -- HAZARDS IDENTIFICATION ROUTES OF EXPOSURE INHALATION of vapor or spray mist. EYE or SKIN contact with the product, vapor or spray mist. EFFECTS OF OVEREXPOSURE EYES: Irritation. SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Irritation of the upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None generally recognized.

For complete discussion of toxicology data refer to Section 11.

Continued on page 2

CANCER INFORMATION

#### Section 4 -- FIRST AID MEASURES

Flush eyes with large amounts of water for 15 minutes. EYES:

Get medical attention.

Wash affected area thoroughly with soap and water. SKIN:

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

Do not induce vomiting. INGESTION:

Get medical attention immediately.

#### Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

LEL

UEL

Not Applicable

N.A.

N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

#### Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). **VENTILATION** 

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108. RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator

approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT 9.62 lb/gal 1152 g/l SPECIFIC GRAVITY 1.16 212 - 500 F 100 - 260 C BOILING POINT MELTING POINT Not Available VOLATILE VOLUME 62 % EVAPORATION RATE Slower than ether VAPOR DENSITY Heavier than air SOLUBILITY IN WATER N.A. 9.0 VOLATILE ORGANIC COMPOUNDS (VOC Theoretical) 1.60 lb/gal 192 g/l Less Water and Federally Exempt Solvents 0.75 lb/gal 90 g/l Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

Continued on page 4

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name
111-77-3	2-(2-Methoxyethoxy)-ethanol
	LC50 RAT 4HR Not Available LD50 RAT 5500 mg/kg
13463-67-7	Titanium Dioxide
	LC50 RAT 4HR Not Available LD50 RAT Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.
Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CHEMICAL/COMPOUND

% by WT % Element

Glycol Ethers

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Continued on page 5

#### Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.





# SHER-CRYL<sup>TM</sup> HPA HIGH PERFORMANCE ACRYLIC

B66-300 SERIES
B66-350 SERIES

GLOSS SEMI-GLOSS

## **PRODUCT INFORMATION**

Revised 7/04

& MARINE COATINGS		PRO	DOCIII	NFORMATION Revised 7/04
	PROD	UCT DESCRIPTION		RECOMMENDED USES
component ac properties Pr mance solvent • Chemical re • Supenor col • Outstanding • Flash rust/e	rylic coating rovides per based coating is based coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating in a coating	ss retention • Fast sture resistance	or performance to high perfor- tes and epoxies. tision resistant dry	For use over prepared: Steel • Galvanizing • Wood Aluminum • Concrete • Masonry Zinc rich primers  Examples: Buildings • Storage Tanks • Water treatment plants Machinery • Equipment • New Construction Power plants • Piping • Structural Steel Select Marine Structures
	PRODUCT	CHARACTERISTICS	3	PERFORMANCE CHARACTERISTICS
Finish:		High Gloss or Sem	ı-Gloss	System Tested: (unless otherwise indicated) Substrate: Steel
Color:		Wide range of colo	rs available	Surface Preparation: SSPC-SP10 2 cts. Sher-Cryl HPA @ 3 mils dft/ct
Volume Solids	s:	38.5% ± 2%, Ultra	White	Adhesion: Method: ASTM D4541
Weight Solids	<b>;</b> :	51% ± 2%, Ultra W	hite	Result: 946 psi Corrosion Weathering with Pro-Cryl Primer:
VOC (EPA Me	thod 24):	<200 g/L; 1.66 lb/g	al	Method: ASTM D5894, 3360 hours, 10 cycles Result: Rating 10, per ASTM D714 for blistering
Recommende	d Spreadii	ng Rate per coat:		Rating 9 per ASTM D1654 for corrosion
Wet mils:		6.0 - 10.0		Direct Impact Resistance:   Method: ASTM D2794
Dry mils:		2.5 - 4.0		Result: >100 in. lbs
maximum film thic	kness and ur	154 - 247 sq ft/gal a on may require multiple informity of appearance		Dry Heat Resistance: Method: ASTM D2485 Result. 300°F Exterior Durability: Method: 3 years, 45° South Result: Excellent
Drying Schedi		mils wet 50% RH:	0.40015	Result: Excellent Flexibility:
To kerrele.	@ 50°F		@ 120°F	Method: ASTM D522, 180° bend, 1/8" mandrel
To touch: Tack free:	1 hours 8 hours		5 minutes 15 minutes	Result Passes
To recoat:	8 hours		15 minutes	Humidity Resistance with Pro-Cryl Primer:
To cure:	30 days		30 days	Method: ASTM D4585, 1250 hours Result: Rating 10 per ASTM D714 for blistering
Drying time is temp	perature, hun	nidity, and film thickness o	lependent	Rating 10 per ASTM D1654 for corrosion  Pencil Hardness:  Method: ASTM D3363
Shelf Life:		36 months, unopen Store indoors at 40°		Result: 2B Salt Fog Resistance with Pro-Cryl Primer: Method: ASTM B117, 1250 hours
Flash Point:		>230°F, Seta Flash		Result: Rating 10 per ASTM D714 for blistering Rating 9 per ASTM D1654 for corrosion  Thermal Cycling:
Reducer/Clean	Up:	Water		Method: ASTM D2246, 10 cycles Result: Passes
				Provides performance comparable to products formulated to federal specification: Mil-P-28578B, TT-P-1511B, and Paint Specification: SSPC-Paint 23 and 24.
				Meets or exceeds performance of MIL-PRF-24596A Flame Retardant Latex.

Acrylic

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continued on back





## SHER-CRYL™ HPA HIGH PERFORMANCE ACRYLIC

B66-300 SERIES ---- B66-350 SERIES

SEMI-GLOSS

## PRODUCT INFORMATION

RECOMMENDED SYSTEMS

Steel:

2 cts. Sher-Cryl HPA @ 25 - 4.0 mils dft/ct

Steel:

Pro-Cryl Universal Primer @ 2.0 - 40 mils dft 1 ct

1-2 cts. Sher-Cryl HPA @ 25 - 4.0 mils dtt/ct

Steel:

DTM Acrylic Primer/Finish @ 2.5 - 50 mils dft 1 ct.

Kem Bond HS @ 2.0 - 5.0 mils dft or Zinc Clad Primer @ 3.0 - 5.0 mils dft or Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct

2 cts.

Steel:

Zinc Clad XI @ 3.0 - 4 0 mils dft

1 ct. 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct

Aluminum:

Sher-Cryl HPA @ 25 - 40 mils dft/ct 2 cts.

Aluminum:

DTM Wash Primer, @ 0.7 - 1.3 mils dft 1 ct. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct 2 cts.

Galvanizing:

2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct

Concrete Block:

Heavy Duty Block Filler @ 10.0 - 18 0 mils dft 1 ct

2 cts. Sher-CrvI HPA @ 2.5 - 4.0 mils dtl/ct

Concrete/Masonry:

Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct 2 cts.

Prefinished Siding: (Baked-on finishes)

DTM Bonding Primer @ 2.0 - 5.0 mils dft

2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct

Wood, exterior:

1 ct A-100 Exterior Oil Wood Primer @ 1.5 mils dft

2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct

Wood, interior:

PrepRite Classic Latex Primer @ 1.6 mils dft 1 ct.

Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct 2 cts.

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

SURFACE PREPARATION----

Do not use hydrocarbon solvents for cleaning.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation

Iron & Steel

SSPC-SP2 SSPC-SP1

Aluminum:

SSPC-SP1

Galvanizing:

SSPC-SP13/NACE 6

Concrete & Masonry:

Dry and sanded smooth

Wood:

SSPC-SP1

Prefinished Siding: Requires primer

TINTING

Tint with EnviroToner Colorants at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Do not use Blend-A-Color Toner.

**Application Conditions** 

Temperature:

50°F minimum, 120°F maximum

(air, surface, and material)

At least 5°F above dew point

Relative humidity.

85% maximum

Refer to product Application Bulletin for detailed application information.

**ORDERING INFORMATION** 

Packaging:

1 and 5 gallon containers

Weight per gallon:

 $10.30 \pm 0.2$  lb

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

The systems listed above are representative of the product's use, other systems may be appropriate.

> The statements made herein are based on our research and/or the research of others believed to be accurate. No guarantee of their accuracy is made however, and such statements may be changed without notice www.sherwin-williams.com





# SHER-CRYL<sup>TM</sup> HPA HIGH PERFORMANCE ACRYLIC

**B66-300 SERIES B66-350 SERIES** 

GLOSS SEMI-GLOSS

## APPLICATION BULLETIN

Revised 7/04

#### SURFACE PREPARATION ....

Surface must be clean, dry, and in sound condition Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

### Do not use hydrocarbon solvents for cleaning.

#### Iron & Steel

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Steam Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance.

#### Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Steam Cleaning per SSPC-SP1

#### Galvanizing

The surface should be weathered for 6 months prior to painting. Remove all oil and grease by Steam Cleaning per SSPC-SP1. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2.

#### **Concrete and Masonry**

For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F before filling. If required for a smoother finish, use Heavy Duty Block Filler, B42W46. Filler must be thoroughly dry before topcoating per manufacturer's recommendations.

Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat ProMar Masonry Conditioner, following label recommendations.

#### Wood

Surface must be clean, dry and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

#### Pre-Finished Siding:

Remove oil, grease, dirt, oxides, and other contaminants from the surface by cleaning per SSPC-SP1 or water blasting per NACE Standard RP-01-72. Always checks for compatibility of the previously painted surface with the new coating by applying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. DTM Bonding Primer is required.

#### **Previously Painted Surfaces**

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

### APPLICATION-CONDITIONS ....

50°F minimum, 120°F maximum

(air, surface, and material)
At least 5°F above dew point

Relative humidity:

Temperature:

85% maximum

#### **APPLICATION EQUIPMENT**

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with existing environmental and application conditions.

Reducer/Clean Up ...... Water

#### **Airless Spray**

Pressure	1500 psi
Hose	1/4" ID
Tip	017"021"
Filter	60 mesh
Reduction	Not recommende

#### Conventional Spray

Gun	BINKS 95
Fluid Nozzle	66
Air Nozzle	63PB
Atomization Pressure	50 psi
Fluid Pressure	15-20 psi
Reduction	As needed up to 121/2% by volume

#### Brush

Brush	Nylon / polyester
Reduction	Not recommended

#### Roller

Cover	3/8"	woven with phenolic core
Reduction	Not	recommended

If specific application equipment is listed above, equivalent equipment may be substituted.

Acrylic

1.26A

continued on back





## \*SHER-CRYLTM HPA HIGH PERFORMANCE ACRYLIC

B66-300 SERIES B66-350 SERIES

SEMI-GLOSS

## APPLICATION BULLETIN

#### **APPLICATION PROCEDURES**

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing and stirring before use.

Apply paint at the recommended film thickness and spreading rate as indicated below:

#### Recommended Spreading Rate per coat:

Wet mils:

6.0 - 10.0

Dry mils:

2.5 - 4.0

Coverage:

154 - 247 sq ft/gal approximate

NOTE. Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 7.0 mils wet 50% RH:

	@ 50°F	@ 77°F	@ 120°F
To touch:	1 hours	30 minutes	5 minutes
Tack free:	8 hours	5 hours	15 minutes
To recoat:	8 hours	5 hours	15 minutes
To cure:	30 days	30 days	30 days

Drying time is temperature, humidity, and film thickness dependent

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

#### PERFORMANCE-TIPS----

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes If necessary, cross spray at a right angle

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Application temperature above 95°F may cause dry spray, uneven sheen, and poor adhesion.

Application temperature below 50°F may cause poor adhesion and lengthen the drying and curing time.

High Performance Acrylic is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. Do not use hydrocarbon containing solvents.

Do not use hydrocarbon solvents for cleaning.

Refer to Product Information sheet for additional performance characteristics and properties.

#### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using Mineral Spirits.

NOTE: If coating is allowed to "set-up", Reducer #54, R7K54, may be required for cleaning. Follow manufacturer's safety recommendations when using Reducer #54.

#### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

The statements made herein are based on our research and/or the research of others believed to be accurate. No guarantee of their accuracy is made however, and such statements may be changed without notice

B66T304 07 00

#### MATERIAL SAFETY DATA CHEET

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER HMIS CODES Health

Flammability Reactivity B66T304

PRODUCT NAME

SHER-CRYL\* HPA High Performance Acrylic Gloss Tating, Clear Tint Base MANUFACTURER'S NAME EMERGENCY TELEPHONE NO. THE SHERWIN-WILLIAMS COMPANY (21:) 566-1917

THE SHERWIN-WILLIAMS COMPANY

101 Prospect Avenue N.W.

Cleveland, OH 44115

DATE OF PREPARATION

INFOFMATION TELEPHONE NO. (C.) (C.) 566-1901 05-MAR-06

Section 2 -- COMPOSITION/INFORMATION OF INGREDIENTS
% by WI CAS No. INGREDIENT UNITS VAPOR PRESSURE

2 111-77-3 2-(2-Methoxyethoxy)-ethan ACGIH TLV Not Available OCHA PEL Not Available

1 mm

1332-58-7 Kaolin

ACGIH TLV 2 mg, nl as Resp. Dust
OSHA PEL 10 mg - Tutal Dust
OSHA PEL 5 mg n Respirable Fraction 

Section 3 -- HAZARDS IDENTIFICATION

IES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor I spray mist. EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure mandause irritation.

INHALATION: Irritation of the upper respirat. System.

In a confined area vapors in high concentration may cause headache,

nausea or dizziness.
SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or exceptive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of textcology data refer to Section 11.

Continued on page 2

B66T304 

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of later for 15 minutes.

Get medical attention.

Wash affected area thoroughly with chap and water. SKIN:

Remove contaminated clothing and subset before re-use.

If affected, remove from exposure. Festure Greathing. INHALATION:

Reep warm and Julet.

INGESTION: Do not induce vomiting.

Get medical attention immediatel.

Section 5 -- FIRE FIGHIING MEASURES

LEL UEL N.A. N.A. FLASH POINT Not Applicable

FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HATARDS

Closed containers may explade (due to the built up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decimposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contains oreathing abbaratus ... III. should be used.

Water spray may be ineffective. If water is week, fug numbles are ferable. Water may be used to cool closed con aneroltu prevent pressure build-up and possible autoignition or explicion when expired to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURE.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OF SHILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. To not take internally. Keep out of the reach of children.

Continued on page 3

B66T304

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Section 8 -- EXPOSURE CONTROLS/PERSONAL FAUTECTION : 

PASCAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breat may vapur and opray mist.

Wash hands after using.

This coating may contain materials classified an number particulated (listed "as Dust" in Section 1) which may be present at nazardous levels only during sanding or abrading of the dried film If no specific dusts are listed in Section 2, the applicable limits for Tursance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable flattion), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the expecure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.1 8.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapur particulate respirator approved by NIOSH/MSHA for protection against materials in Section 1.

When sanding or abrading the dried film, wear a must must respirately approved by NIOSH/MSHA for dust which may be generated from this orduct, underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove capalier for protection against materials in Section 2. EYE PROTECTION

Wear safety spectacles with unperforated side melus. 

Section 9 -- PHYSICAL AND CHEMICAL PROFESTIES

PRODUCI WEIGHT SPECIFIC GRAVITY
BOILING POINT
MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER Hq

8.76 lb/gal 1 - 9 g.l 1.05 212 - 500 F 100 260 Not Available 61 % Clower

212 - 500 F 100 160 C

Heavier than air

N.A.9.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

1.47 lb/gal 176 g/l Less Water and Fereially Exempt Solvents 0.70 lb/gal 83 g/l Emitted VOC 

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

tinued on page 4

HAZARDOUS POLYMERIZATION Nill not occur Section 11 -- TOXICOLOGICAL INFORMATION CHRONIC HEALTH HALARDS No ingredient in this product is an IARC, NTP . ...SHA listed carcingen. TOXICOLOGY DATA
CAS No. Ingredient Name 111-77-3 2-(2-Methoxyethcxy)-ethanol LC50 RAT 4HR of Available LD50 RAT 5500 mg/kg 1332-58-7 Kaolin LC50 RAT 4HR Lt Available LD50 RAT TIT Available Section 12 -- ECOLOGICAL INFORMATION ECOTOXICOLOGICAL INFORMATION No data available. Section 13 -- DISPOSAL CONSIDERATIONS WASTE DISPOSAL METHOD Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incin-late close container. L pose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution. Section 14 -- TRANSPORT INFORMATION No data available. Section 15 -- REGULATORY INFORMATION SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION - - -CAS No. CHEMICAL/COMPOUND ານ WI ຈ Element Glycol Ethers CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of

California to cause cancer and birth defects or the reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or ale fewemot from listing, on the TSCA Inventory.

- \$19 E

Cratinued on page 5

page 5

B66T304 SECTION page 5 Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the nazaru criteria of the Canadian Controlled Products Regulations (183) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



## CO 'NTY OF LOS ANGEL S

## DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE ALHAMBRA, CALIFORNIA 91803-1331 Telephone (818) 458-5100

ADDRESS ALL CORRESPONDENCE TO P O BOX 1460 ALHAMBRA, CALIFORNIA 91802-1460

December 24, 1992

THOMAS A. TIDEMANSON, Director

SAFETY DEPARTMENT RECEIVED

DEC 3 1 1992

IN REPLY PLEASE 1-225

Mr. David Simon Liquid Air Corporation P. O. Box 8038 Walnut Creek, CA 94596

Dear Mr. Simon:

HAZARDOUS MATERIALS UNDERGROUND STORAGE CLOSURE CERTIFICATION CLOSURE PERMIT NOS. 4784B AND 6555B LOCATION: 8832 DICE ROAD, SANTA FE SPRINGS

This office has reviewed the final closure report submitted on September 24, 1990. Based on the information submitted, this letter confirms the completion of site investigation and remedial action of contamination resulting from leaking underground storage tanks at the above site. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings or site usage.

If you have any questions regarding this matter, please contact Nicole Long at (818) 458-3572.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

Pat A. Proano

Supervising Civil Engineer II Waste Management Division

oans

NL:m WP/225

cc: California Regional Water Quality Control Board

Ms. Jaqui Sikoryak, State Water Resources Control Board



## **MEMORANDUM**

2202.18

TO.

Milt Bird - SF Springs

DATE:

January 4, 1993

FROM.

David Simon

SUBJECT.

**Underground Storage** 

COPIES.

Closure Certification

LOC / DIV.

Re: County of Los Angeles Letter

Dated December 24, 1992, Attached

The attached letter acknowledges proper closure of the four (4) underground storage tanks which were removed from SF Springs per our September 24, 1990 closure report.1

Please keep on file.

David Simon

Manager Regulatory Affairs

DS/db

Att:

CC:

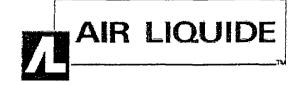
R. Predmore

K. Brown - Real Estate File

R.E. SF Springs (8832 DICE)

dns0193.mem

<sup>&</sup>lt;sup>1</sup> Gasoline, diesel, acetone, waste oil.



October 20, 2004

Philip Loder
Department of Toxic Substances Control
1001 "1" Street, 25<sup>th</sup> Floor
PO Box 806
Sacramento, CA 95812-0806

Dear Mr. Loder:

RE: Notice of Non-Compliance: Hazardous Waste Source Reduction and Management Review Act (SB 14)

This letter is in response to your letter dated October 6, 2004. Air Liquide American did generate over 12, 000 kg of hazardous waste in 2002 at the Santa Fe Springs, CA facility in the removal of underground storage tank operations involving acetone. After this waste generation in 2002, all underground storage tank removal operations involving acetone have ceased. In both 2003 and 2004, less than 2,000 kg of hazardous waste was generated.

I contacted Relly Briones today and I explained this matter to him. He has confirmed and agreed that there is no further action for the Air Liquide Santa Fe Springs, CA to take.

Thank you for your assistance on this matter. If you have any questions, please contact me at 713-402-2111.

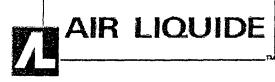
Sincerely,

Farah Ullah

**Environmental Specialist** 

Farah Ullah

Air Liquide, LP



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Sincerely,

Farah Ullah

**Environmental Specialist** 

arah ullah

Air Liquide, LP

	U.S. Postal Servi CERTIFIED M (Domestic Mail	AIL RE	ECEIP o Insur	T ance C	overage	Provid	led)
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Terry Tamminen Agency Secretary CaVEPA

## Department of Toxic Substances Control



Arnold Schwarzenegger
Governor

1001 "I" Street, 25th Floor P.O. Box 806 Sacramento, California 95812-0806

October 6, 2004

CERTIFIED MAIL #7004-1160-0006-8364-0558

Environmental Manager AIR LIQUIDE AMERICA CORPORATION EPA ID #CAL000021160 8832 DICE ROAD SANTA FE SPRINGS, CA 90670-0000

NOTICE OF NONCOMPLIANCE: HAZARDOUS WASTE SOURCE REDUCTION AND MANAGEMENT REVIEW ACT (SB 14)

Dear Environmental Manager:

This letter is to inform AIR LIQUIDE AMERICA CORPORATION, EPA ID #CAL000021160, that it is in violation of the requirements of the Hazardous Waste Source Reduction and Management Review Act (SB 14), of the California Health and Safety Code, Division 20, Chapter 6.5, Article 11.9, Section 25244.12 et al. The SB 14 requires that entities generating more than 12,000 kg/yr of hazardous waste identify waste sources, evaluate alternatives to waste generation, document hazardous waste management practices, and submit a Summary Progress Report (SPR) to the Department of Toxic Substances Control (DTSC). Preparation of hazardous waste source reduction plans benefits companies by helping to identify ways of reducing wastes which in turn can reduce costs and employee exposure to chemicals. Waste reduction also helps protect California's environment.

AIR LIQUIDE AMERICA CORPORATION generated over 12,000 kg of hazardous waste in 2002 and is subject to SB 14. AIR LIQUIDE AMERICA CORPORATION failed to submit a SPR, on or before September 1, 2003, as required by SB 14.

in May 2004, the Office of Pollution Prevention and Technology Development (OPPTD) of DTSC requested by mail that AIR LIQUIDE AMERICA CORPORATION submit a SPR to DTSC. AIR LIQUIDE AMERICA CORPORATION did not respond to the letter. The letter explained the obligations of AIR LIQUIDE AMERICA CORPORATION under SB 14, and provided instructions for returning to compliance.

Environmental Manager October 6, 2004 Page 2

This letter is a Notice of Noncompliance with the requirements of SB 14. AIR LIQUIDE AMERICA CORPORATION must submit a SPR to DTSC within ten days of receipt of this letter. Failure to respond to this deadline may result in penalties of up to \$1,000 per day pursuant to the California Health and Safety Code Section 25244.18(d)(2).

Documents should be sent to:

Mr. Philip A. Loder
Department of Toxic Substances Control
Office of Pollution Prevention and Technology Development
P.O. Box 806
Sacramento, California 95812-0806

If you have any questions, or need further information or assistance in complying with SB 14 or this notice, please contact OPPTD at (916) 322-3670,

Sincerely,

Alan Ingham

Office of Pollution Prevention and Technology Development

# AIR LIQUIDE AMERICA CORPORATION

8832 DICE ROAD, SANTA FE STRINGS, CALIFORNIA 90670 562 945 1\83 562 693 1156 FAX

To: Kelly Davidson	From: Tlyp Kazhowy
Fax:	Pages: 3
Phone:	Date: 10/12/04
Fax: Pages: 3	
***	· · · · · · · · · · · · · · · · · · ·
CURGENT   FOR REVIEW [	PLEASE COMMENT   PLEASE REPLY     PLEASE RECYCLE
intended only for use by the indications in error, please notify me imn  Comments:  Please pive  find any in	idual named above. This may be confidential. If you have received ediately at the number above.  ME a call & S SOOU as 4P4  Fo. I Cag



#### HTTP://WWW.PETROBUILDERS.COM

L: (562) 946-2285 • FAX: (562) 946-5395

July 9, 2002

Air Liquide 12800 W. Little York Road Houston, TX 77041

Attn: Ms. Kelly Davidson

Enclosed please find the following documents for the above referenced location.

Re:

Tank Removal

Inspection Cards & Permits
Lien Releases (none)
Waste Manifest
Marine Chemist Certificate
Tank Destruct Receipt
Certificate Of Analysis (Chemtek)
-Compaction-Report (Drew Associates Corp.)
Soil Sample Report (AGE)

If you have any questions please contact the undersigned.

Thank you,

PETRO BUILDERS, INC.

John Spohr

Sr. Administrative Assistant

JS:sf

Encl.

## Inspection Cards & Permits

## Santa Fe Spags Fire Deparant 11300 GREENSTONE AVE • SANTA FE SPRINGS • CA 90670 (562) 944-9713 • FAX (562) 941-1817

## **POST ON JOB SITE**

Name of Facility	AIF LIGU	IDE AMERICA CERF	P. Description of work
		E F. 7, 5 F. 5	THE WAY WET VAYOUR
	ACTIO L. TESCH		42 . 1 1/2 ( )
Architect/Engineer		Telephone ( )	
Address			
CONTRACTOR Contractor Address License Class		DERS INC.	Telephone (562) 546-2286  Expiration Date 9 130 102
		FIRE INSPECTIO	ON

## IOTE: DO NOT OCCUPY BUILDING, ROOMS, ACTIVATE SYSTEMS OR EQUIPMENT UNTIL 'INAL INSPECTIONS HAVE BEEN MADE.

OTIFY THE SANTA FE SPRINGS FIRE DEPARTMENT ((562) 944-9713) AT LEAST 24 HOURS BEFORE THE JOB IS EADY FOR INSPECTION. WHEN CALLING, PLEASE GIVE THE OWNERS NAME, JOB ADDRESS, AND TYPE OF VSPECTION REQUIRED. IF INSPECTION IS NOT READY UPON FIRE INSPECTOR'S ARRIVAL, YOU MAY BE HARGED A REINSPECTION FEE.

FIRE PROTECTION DIVISION	DATE	INSPECTOR	FIRE PROTECTION DIVISION	DATE	INSPECTOR
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Installation			Welded Plate		
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Final			Racks/Draft Curtains/Hose Racks/SmokeVents		
ompressed Gas System Test			Dry/Wet Chemical Extinguishing System	·	
PG Tank					1.50
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andpipe Wet/Dry			"H" Occupancy		· .
n-Site Fire Hydrant System			Emergency Alarm System	-//	
U/G Hydro			ÚST & AST	2/1402	_KO
Flush			(installation/Removal/Modifications)	· / ,	
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ying Ovens (Industrial Baking/drying)					
ent & Air Supported Structure			-		
ow/Powder Coating Equipment				,	
enant Improvement (Structure)					
enant Improvement (Auto Sprinkler)					
Rough					
Final					
emarks: witnessed removal	2 08	1 .CV	acefore UST + Sample!		-

## POST THIS CARD AT JOB SITE

CITY OF SANTA FE SPRINGS DIVISION OF BUILDING & SAFETY 11710 TELEGRAPH ROAD SANTA FE SPRINGS, CA 90670 (562) 868-0511 EXT. 241

## INSPECTION RECORD

NOTE: Do Not Cover Walls Until Frame, Insulation, Electrical, Mechanical and Plumbing Have Been Signed.

	- Tumbing Have be			
BUILDING	DATE	INSPECTOR'S SIGNATURE		
FOUNDATION LOCATION FORMS, SETBACK				
SLAB				
Pour No Concrete	Until Above Has I	Been Signed		
JOIST & SHEATHING				
FRAME FIRE STOPS, BRACING, BOLTS				
INSULATION				
LATH INT.   DRY WALL	,			
LATH EXT				
ELECTRICAL	DATE	INSPECTOR'S SIGNATURE		
UNDER SLAB WORK				
ROUGH CONDUIT				
ROUGH WIRING				
TEMP POWER				
MECHANICAL	DATE	INSPECTOR'S SIGNATURE		
FAU A.C. REF BOILER OTHER				
COMBUST. & CIRCULAT. AIR, DUCTS, VENTS, ETC				
LOCATION, CLEARANCE, ACCESS				
PLUMBING	DATE	INSPECTOR'S SIGNATURE		
UNDER SLAB WORK				
ROUGH PLUMBING		_		
ROUGH GAS PIPING				
HOUSE SEWER		NOE 04544		
SEPTIC TANK, SEEP PIT(S) AND/OR DRAINFIELD		DICE 01544		
FINAL APPROVALS	DATE	INSPECTOR'S SIGNATURE		
ELECTRICAL				
GAS PIPING				
MECHANICAL				
PLUMBING FIXTURES	101	;/ //		
BUILDING	13/81/02,	Kooult		

· . \*

City of Santa Fe S res Fire Department • Certified Uri d Program Agency

Santa Fe Springs, CA 90670

Phone (562) 944-9713 • Fax (562) 941-1817

## APPLICATION FOR STORAGE TANK CLOSURE

•			ÆGROU		ERGRO	UND			
				rerica c					
RESPONSIBLE PARTY I	RON	LITE		AIR LIQUID	<u> </u>		(1, 05/70		
Mailing Addr Contact Perso					<u> 562 -</u>		te <u>CA</u> Zip <u>90670</u> 5742		
CONTRACTOR OF the provided List must include Name	R OWN ude subcontracte TROE	NER/OPERA or name, addr 3U1210 PA1NT	TOR AS CON less, phone num	•	by checking app of the contracto	ropriate box r's license License Nu	A list of all subcontractors must mber $2 \times 90670$ cone $562 \cdot 9462285$		
Permanent Permanent Permanent Temporary Monitoring	tank remove, tank remove, closure in pv (see conditions well abandons ILL BE CLEA	al, non-haz al, hazardo dace (see c on D attacl onment (se	cardous (see ous (see cond ondition C a ned) e Condition I	E attached) ED, OR CLOSED. 2/14/0		ed disposi			
COMPLETE THE FOLLO	WING:				TO BE COMPLETED BY FIRE DEPT.				
TANK ID NUMBER (use state tank ID# for underground tanks)	TANK MATERIAL	AGE IN YEARS	CAPACITY	LAST MATERIAL STORED/PAST MATERIAL STORED PER CC4R67383 3(D)1	DATE	INSP ANITIALS	COMMENTS		
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Notification/Permit Requirem	nents and Contra request By sig	actor's Declar nature below	ation, the Notic	e to Closure Permit Applicants	and all other c	onditions and	quirements and Conditions, the limitations attached. Additional he identity of the last material or		
Applicant's Signature_	May	MK	Jara	Jas		_Date_/-	23-02		
Fint Name RAL Title(please check):	-	374/2.	erator 🕽	Contractor		Phone <u>_5</u> /	52-9462283		
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ERMISSION IS HERE CONDITIONS AND LIM  Neal Welland  Fire Chief	BY GRANTE	ED TO PRO	OCEED WIT IT EXPIRES Inspec	180 DAYS ROM THE DA	CRIBED ABO	OVE SUBJE	CT TO THE ATTACHED  Approved 1/25/02 Approved by Approved from the Approved by Approved from the Approved by Approved from the Approved by Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the Approved from the		
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## € of Santa Fe Springs Fire Dep ent 11300 GREENSTONE AVE • SANTA FE SPRINGS • CA 90670

(562) 944-9713 • FAX (562) 941-1817

## **PLAN REVIEW / PERMIT APPLICATION**

Name of Facility AIR LIQUIDS +								
Project Address 8832 DICE RD.			1-6,000 UST remove	<u>u</u>				
Project Contact AARON L. TESCH Telephone	(562) 4	64-1	5242 (actions)					
Architect/Engineer Telephone								
Address	`							
,			L					
CONTRACTOR INFORMATION (if applicable)				_				
Contractor PETRO BUILDERS	MC.		Telephone (562) 946-2285	,				
Address 10609 PAINTER A		=.5						
License Class A License	Number (	7/115	105 Expiration Date 9 / 30 / 02					
LICENSED CONTRACTOR DECLARATION (if ap		$\frac{T}{T}$	TVS Expiration Date					
I hereby affirm that I am licensed under provisions of Chapter 9 (comm		section	7000) of Division 3 of the Rusiness and Professions Code, and n	ny license is				
in full force and effect			_					
Signature Paleh Barry FOR	PETR	o ≠5	DR Sate 1 /23/61					
OWNER/BUILDER DECLARATION								
I hereby certify that I have read this application and state that the above	: information	is corre	ct. I agree to comply with all city ordinances and state laws rela	ting to				
construction, and hereby authorize representatives of this city to enter t	ipon mention	ied prop						
Signature Park Fara 112			Date / /23/0]					
			<del>,</del>					
√ FIRE PROTECTION DIVISION	FEE		ENVIRONMENTAL PROTECTION DIVISION	FEE				
Preliminary Plan Review			Preliminary Plan Review (Article 80)					
3 or more Plan Re-Submittal			"H" Occupancy					
Fire Alarm System			Emergency Alarm System					
Fire Extinguishing System (Dry Chem System).			Closure Plan/Permit Review	-				
Fire Sprinkler Systems		(	UST& AST (Installation/Removal/Modifications)					
sq. ft. per floor		`	a. First Tank	4640				
New Construction Plan Review			b. Each Additional Tank					
sq. ft per floor			Chemical Classification & Occupancy Rating					
High-Piled Combustible Stock (Racks/Draft			U.F.C./U.B.C. Tables Review					
Curtains/Hose Racks/Smoke Vents)			Site Assessment/Mitigation					
sq. ft. per floor			Asbestos Removal	<u> </u>				
Underground Fire Mains/Pumps/Tanks			IW Permit Review					
Tenant Improvements(Structural/Sprinkler)			IW Plan Review					
Flammable/Combustible Liquid Tank & Piping (UG & AG)			Plan Expedite	ļ				
LPG Tanks			Other					
Paint Spray Booths/Dip Tanks	<del> </del>							
Dust Collection Systems				<b></b>				
On-site Fire Hydrant System		٧	FIRE SUPPRESSION					
Drying Ovens			Stand-by Fire Watch					
Tents and Air Support Structure			Fire Department Equipment w/ Crew					
Compressed Gas System			Confined Space Back-up Team					
Carnivals & Fairs			<del></del>					
Monitoring Wells								
			OFFERD					
Abandonment/Reabandonment of Oil Wells w/capping			OTHER					
Gas Detection Systems				, !				
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Other								
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WORKER'S COMPENSATION DECLARATION I hereby affirm that I have a certificate of consent to self insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)
Policy No. WOS149.03 Company Committee IND. INS. SE ] Certified copy is hereby furnished Cerfified copy is filed with the county building inspection CERTIFICATE OF EXEMPTION FROM WORKER'S COMPENSATION INSURANCE (This section need not be completed if the permit is for one hundred dollars (\$100) or less ) 6. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws. Date\_ \_\_\_ Applicant\_ NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. LICENSED CONTRACTORS DECLARATION I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect Contractor could, in I am exempt under Sec. B. & PC for this reason. . Signature. I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended of offered for sale (Section 7044, Business and Professions Code.) I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.) CONSTRUCTION LENDING AGENCY I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ C) Lender's Name\_ \_ender's Address\_ certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

Signature of Applicant or Agent

COUN	TY OF	LOS AN	GELES	<u> </u>			DING A	ND SAFET	ΙΥ		
FOR APPLICANT TO FILL IN BUILDING ADDRESS					BUILDING ADDRE	SS ACTION		رزار	1685 2	277	
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CITY STA FOR	#1 A7 65	( Carrier )	ZIP (2)(5)		LOCALITY	· · · · · · · · · · · · · · · · · · ·	<del></del>				<del> -</del>
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OWNER		<del></del>	TEL	NO.	ł	SPECIAL (	CHOITION	15			(
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INVESTIGATION FEE		ISSUA	NCE FEE	141.72	.]						
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## Waste Manifest

## See Instructions on back of ( ) 6.

Department of Toxic Substances Control
Sacramento, California

<b>A</b>	UNIFORM HAZARDOUS	Generator's US EPA ID No	Manifest Document No	2. Page 1	Information in the shaded areas is not required by Federal law
	. WASTE MANIFEST	CALOGOSSILISE	0 0 0 0 0	of ;	-
	3 Generator's Name and Mailing Address AIR LIQUIDE 8862 DICE ROAD: S	SANTA FE SPRINGS, CA 906		ale Manuest Document to	20831170
	4 Generator's Phone ( 552) 464-52		Ď.		
1	5 Transporter I Company Name	6 US EPA ID Number		gte Tronsporter s.ID [Res	erved T
	ADAMS SERVICES, IA 7 Transporter 2 Company Name	C   C   A   L   9   2   2   1   8 US EPA ID Number	12 5 6 5 2 日本	onsporier's Phone in Transporter's 40 [Res	ervedal
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	9 Designated Facility Name and Site Address DePENNO/KERDON	10 US EPA ID Number	ig son	oles actions flow	
	2000 N. ALAMEDA ST COMPTON, CA 90222	C A T 0 8 0 9	بمرضون	cliff st Phone	
	11 US DOT Description (including Proper Shippi		12 Containers No Type		14 Unit Wi/Vol Is Waste Number
	° (OIL & WATER, NON	-P.C.P.A.	, 140 Тур	Godiniy	istore
G E	eazardous vaste li		0,0,1 7	T 001/100	G Epa/Otherway 1
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	Addinging Descriptions for Moterials History			idling Codestor Waste.	Piced Whove
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	15 Special Handling Instructions and Additional I	a formation			
	DON PROPER PROTECT.	•			
	no swoking; e.r.g.		_		
	1/ CENERATORIC CERTIFICATION III		tractor: Peti		
	16 GENERATOR'S CERTIFICATION. I hereby dec marked, and labeled, and are in all respects	in proper condition for transport by highway acco	ording to applicable internation	onal and national goveri	nment regulations
	practicable and that I have selected the pract	not I have a program in place to reduce the volun icable method of treatment, storage, or disposal c unity generator, I have made a good faith effort	currently available to me which	h minimizes the present	t and future threat to human health
<b> </b>	Printed/Typed Name	C > jun   Signature	Mercelon		Month Day Year
TR	17 Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials Signature	1 10		Month Day Year
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D R T E R	18 Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials Signature			Month Day Year
F	19 Discrepancy Indication Space	······································			
A C					DICE 01549
1	20 Facility Owner or Operator Certification of rec		est except as noted in Item 19		
ſ	Printed/Typed Name	Signature			Month Day Year
L		<u></u>		·	

DO NOT WRITE BELOW THIS LINE.

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## Marine Chemist Certificate

Dr#910	U MU		
homas D. Beck & Assoc., Inc.	74-004 MARIE	. CHEMIST CE	RTIFICATE
Iba HARBORTESTING LABORATORY 4 HOUR PHONE: (562) 492-9646	1	Serial #	10717
A	12 2104IDE	12 6	e e e
VETROBULDERS A	Vessel Owner or Agent	12 PB	BOZ Bata
Trey Requested By UND TINK	1)-5.7-	8832	DICE RD
essel	Type of Vergel 1/1/1/	$\mathcal{H}$	critic Location of Vessel
ACETONE st Cargo	Tests Performed	/V	ime Survey Completed
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WISH MI OPUBLIED IN DUBLE CT	UNDIATED C	9630 198 12F	1302
In the event of any physical or atmospheric adverse			
any of the above spaces, or if any doubt, immediate	<u> </u>		
QUALIFICATIONS Transfer of ballast of manipulation of valves or closure equipules specifically approved in this Certificate, requires inspection and endors	sement or reissue of Certificate for the space		
similarly enclosed appurtenances shall be considered "not safe" unless otherw STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 30		bsection 6-3 2)	
SAFE FOR WORKERS: Means that in the compartment of space so designate	ted (a) the oxygen content of the atmosphe	ere is at least 19.5 percent by volume	and that 1b) toxic

SAFE FOR WORKERS: Means that in the compartment of space so designated (a) the oxygen content of the atmosphere is at least 19.5 percent by volume, and that, (b) toxic naterials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while naintained as directed on the Manne Chemist's Certificate.

NOT SAFE FOR WORKERS Means that in the compartment of space so designated, the requirements of Safe for Workers have not been met

ENTER WITH RESTRICTIONS. Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and ime are specified

3AFE FOR HOT WORK: Means that in any compartment designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces in where external hot work is to be performed, and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit, and that, (c) he residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as irrected on the Marine Chemist's Certificate, and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned ufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

'OT SAFE FOR HOT WORK Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

HEMIST'S ENDORSENENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on assets and have found the condition of each to be in accordance with its assigned designation.

lersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and nds conditions and limitations under which it was issued.\*

02-12-02

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is unified subject to complete with all fullifications and instructions

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# Tank Destruction Certificate



TANK DESTRUCTION CERTIFICATE

DATE:

March 29, 2002

CONTRACTOR:

Petro Builders, Inc.

GENERATOR:

Air Liquide

JOB SITE:

Air Liquide

8832 Dice Road

Santa Fe Springs, CA.

DESCRIPTION

TANK & PIPING:

1 - 6,000 gallon steel gasoline tank

& all associated piping

REFERENCE NO:

Marine Chemist Certificate #10717

February 12, 2002

This is to certify receipt and acceptance of the tanks and associated piping specified above. All materials listed above will be completely destroyed for scrap purposes only.

AUTHORIZED SIGNATURE

**DICE 01553** 

# Certificate Of Analysis

#### CHEMTEK ENVIRONMENTAL LABORATORIES INC.

"An environment-friendly company"

14140 E. Alondra Blvd. Suite A, Santa Fe Springs, CA 90670 Tel. (562) 926-9848 FAX (562) 926-8324 CA Dept of Health Accredited. (ELAP No. 1435)

#### CERTIFICATE OF ANALYSIS

Job No. 202026 

Date: 02-13-02

This is the Certificate of Analysis for the following samples:

Client Contact person : Petro Builders

: Joanna Shultz

Project No.

Project

: Air Liquide

Project site

: 02-12-02

Sample date Date received

: 02-12-02

Number of samples : 3

Sample type

Sample condition : Good

. Sampling method . .: EPA 5035 (Encore)

Samples were labeled as follows:

#### SAMPLE IDENTIFICATION

#### LABORATORY NUMBER

T1-1 T1-2 202026-01A

202026-02A

SP-1

202026-03A

Reviewed and Approved:

Michael C.C. Lu

Laboratory Director

#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

: Petro Builders

Project No. :

Project : Air Liquide

Project site:

Job No. : 202026

Date:02-13-02

Analysis: EPA 8015M (Acetone) Unit: mg/kg or ppm

Sample ID : See below

Sample type : Soil

Sampling method: EPA 5035 (Encore)

Sample date : 02-12-02 Analysis date : 02-13-02

Samp: Client	le IDs Lab	Acetone
T1-1	- · 01A	ND
T1-2	02A	ND
SP-1	03A	ND
Method	Blank	ND
Method	Detection I	imit 5.0

ND: Not Detected at the specified limit.

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#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

Client : Petro Builders

Project No.

Project : Air Liquide

Project site :

Job No. : 202026 Date: 02-13-02

### Analysis: EPA 8260B (Volatile Organics by GC-MS) Unit: μg/kg or ppb page 1 of 2

Sample ID : See below Sample date : 02-12-02 Sample matrix : Soil Analysis date : 02-13-02

Sampling method: EPA 5035

COMPOUND	T1-1 01A (ppb	T1-2 02A (ppb)	SP-1 03A (ppb)	Detection Limit (ppb)
Benzene	ND	ND	ND	2
Bromobenzene	_ND	ND	ND	
Bromochloromethane	ND	ND	ND	2
Bromodichloromethane	ND	ND	ND	2
Bromoform	ND	ND	ND	2
Bromomethane	ND	ND	ND	2
n-Butylbenzene	ND	ND	ND	2
sec-Butylbenzene	ИD	ND	ИD	2
tert-Butylbenzene ·	ND	ND	ND	2
Carbon Tetrachloride	ND	ND	ND	2
Chlorobenzene	ИD	ND	ND	2
Chloroethane	ИD	ND	ND	2
Chloroform	ND	ИD	ND	2
Chloromethane	ND	ND	ND	2
2-Chlorotoluene	ND	ND	ND	2
4-Chlorotoluene	ND	ND	ND	2 2
2-Chloroethyl vinyl ether	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	2
1,2-Dibromoethane (EDB)	ND	ND	ND	2
Dibromomethane	ND	ND	ND	2
1,2-Dichlorobenzene	ND	ND	ND	2
1,3-Dichlorobenzene	ND	ND	ND	2
1,4-Dichlorobenzene	ND	ND .	ND	2 2
Dichlorodifluoromethane	MD	ND	ND	2
1,1-Dichloroethane	ND	ND	ND	2
1,2-Dichloroethane	ND	ND	ND	2
1,1-Dichloroethene	ND	ND	ND	2
cis-1,2 Dichloroethene	ND	ND	ND	2
trans-1,2-Dichloroethene	ИD	ND	ИD	2
1,2-Dichloropropane	ND	ND	ND	2
1,3-Dichloropropane	ND	ND	ND	2

continued next page

14.

ND: Not detected at the specified limit.

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**DICE 01557** 

### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

Job No. 202026

## Analysis: EPA 8260B (Volatile Organics by GC-MS) Unit:μg/kg or ppb page 2 of 2

Sample ID : See below Sample date : 02-12-02 Sample matrix : Soil Analysis date: 02-13-02

Sampling method: EPA 5035

COMPOUND	T1-1	T1-2	SP-1	Detection
	01A	02A	03A	Limit
	(ppb)	(ppb)	(ppb)	(ppb)
2,2-Dichloropropane	ИD	ND	ND	2
1,1-Dichloropropene	ND	ND	ND	2
cis-1,3-Dichloropropene	ND	ND	ND	2
trans-1,3-Dichloropropene	ND	ND	ND	2
Ethylbenzene	ИD	ND	ND	2
Hexachlorobutadiene	ND	ND	ND	2
Isopropylbenzene	ND	ND	ND	2
4-Isopropyltoluene	ND	ND	ND	2
Methylene Chloride	ND	ND	ND	2
Naphthalene	ND	ND	ND	2
n-propylbenzene	ND	ND	ND	2
Styrene	ND	ND	ND	2
1,1,1,2-Tetrachloroethane	ND	ND	ND	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	2
Tetrachloroethene (PCE)	ND	ND	ND	2
Toluene	ND	ND	ND	2
1,2,3-Trichlorobenzene .	ND	ND	ND	2
1,2,4-Trichlorobenzene	ND	ND	ND	2
1,1,1-Trichloroethane	ND	ND	ND	2
1,1,2-Trichloroethane	ND	ND	ND	2
Trichloroethene	ND	ND	ND	2
Trichlorofluoromethane	ND	ND	ND	2
1,2,3-Trichloropropane	ND	ND	ND	2
1,2,4-Trimethylbenzene	ND	ND	ND	2
1,3,5-Trimethylbenzene	ND	ND	ND	2
Vinyl Chloride	ND	ND	ND	2
Total Xylenes	ND	ND	ND	4
Additional compounds				
Acetone	ND	ND	ND	15
Ethanol .	ND	ND	ND	15
2-Butanone (MEK)	ND	ND	ND	<b>1</b> 5
4-Methyl-2-pentanone (MIBK)	ИD	ND	ND	15
2-Hexanone	ND	ND	ND	15
Methyl Tert. Butyl Ether (MTBE)	ND	ND	ND	2
Ethyl Tert. Butyl Ether (ETBE)	ND	ND	ND	5
Diisopropyl Ether (DIPE)	ND	ND	ND	5
Tert. Amyl Methyl Ether (TAME)	ND	ND	ND	5
T-Butyl Alcohol (TBA)	ND	ND	ND	20

ND: Not detected at the specified limit.

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#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

#### QA/QC REPORT

### EPA 8015M (Acetone) Unit: mg/kg

Job No. : 202026 Lab Sample ID. : 202026-03A Date Performed : 02-13-02

Analyte	ORIG <u>Result</u>	SPK <u>CONC</u>	MS 	% <u>MS</u>	MSD	% MSD	% RPD	ACP %MS	ACP %RPD
Acetone	ND	150	165	110.0	144	96.0	13.6	80-120	0-20

#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

#### QA/QC REPORT

EPA 8260B Unit:  $\mu$ g/kg

Job No. : 202026 Lab Sample ID : 202026-03A Date Performed: 02-13-02

ANALYTE	ORIG. RESULT	SPK CONC	<u>Ms</u>	% <u>MS</u>	<u>msd</u>	% MSD	RPD	ACP %MS	ACP RPD
1,1-DCE	ND	20.0	21.3	106.5	20.4	102.0	4.3	70-130	0-30
Benzene	ND	20.0	22.3	111.5	19.4	97.0	13.9	70-130	0-30
TCE	ND	20.0	21.0	105.0	19.0	95.0	10.0	70-130	0-30
Toluene	ND	20.0	22.0	110.0	20.2	101.0	8.5	70-130	0-30
Chloro benzene	ND	20.0	21.4	107.0	19.8	99.0	7.8	70-130	0-30

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CHEMTEK ENVIRONMENTAL LABORATORIES INC.

14140 Alondra Boulevard, Suite A Santa Fe Springs, Ca. 90670

Tel: (562) 926-9848 Fax: (562) 926-8324

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense

\* Key AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum

DISTRIBUTION: WHITE with report / YELLOW To CHEMTEK / PINK To courier

# **Compaction Report**

# DREW ASSOCIATES CORPORATION

# GEOTECHNICAL REPORT

# EXCAVATION BACKFILL COMPACTION

AIR LIQUIDE 8832 Dice Road Santa Fe Springs, California

Prepared for:

PETRO BUILDERS, INC. 10609 Painter Avenue Santa Fe Springs, California 90670

W.O. 200207

March 8, 2002

**DICE 01563** 

PETRO BUILDERS, INC. 10609 Painter Avenue Santa Fe Springs, California 90670

Subject: Excavation Backfill Compaction Report

Air Liquide, 8832 Dice Road, Santa Fe Springs, California

ATTN.: Mr. Bob Girard

Mr Girard:

Forwarded herewith is the Rough Grade Compaction Report for the excavation backfill at the above site. A brief summary of backfill and compaction operations is included.

**OVEREXCAVATION** An Acetone UST was removed and exported, resulting in an excavation. DREW ASSOCIATES CORPORATION (DAC) was contracted to test the backfill for compaction.

#### **BOTTOM OBSERVATION AND RECOMMENDATIONS**

The bottom of the excavation was observed by DAC personnel on 2/19/02. The excavation was observed to penetrate to a maximum depth of 9' below existing grade (-9'). The bottom of the excavation was processed, compacted, tested for density and accepted for backfill.

#### BACKFILL AND COMPACTION

Backfill soil consisted entirely of imported material. Backfill soils were placed in subsequent lifts of 6" - 8" and compacted by rolling with a sheepsfoot wheel attached to the boom of Caterpillar® backhoe.

Compaction testing was performed by the sand cone method, ASTM:D-1556-90. Vertical increments of fill between compaction tests did not exceed one foot; volumetric increments did not exceed 500 cubic yards of fill. The approximate locations of the Compaction Tests are illustrated on *Figure I: Compaction Tests Locations*.

A maximum density analysis was performed on the imported materials at intervals not exceeding 1000 cubic yards. The backfilled material was compacted to a minimum per cent compaction of 90% relative to the following standards (continued next page):

ASTM: D-1557-91, METHOD "A" (Soil Type 1) 4 inch diameter mold, 1/30 ft<sup>3</sup> 5 layers/25 blows per layer, 10 lb. hammer dropped 18 inches.

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**DICE 01564** 

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#### BACKFILL AND COMPACTION (cont'd)

ASTM: D-1557-91, METHOD "C" (Soil Types 2,3,4)

6 inch diameter mold, 1/13.333 ft³ volume

5 layers/56 blows per layer, 10 lb. hammer dropped 18 inches.

Table I: Maximum Density Analyses

SOIL TYPE	GENERAL CLASSIFICATION	OPTIMUM MOISTURE %	MAXIMUM DRY DENSITY, LBS/CU. FT.
1	Native- Dark Brown very silty sand fine sand with clay (SC-SM)	11.5	126.0
2	IMPORT/NATIVE MIX- Brown gravelly silty sand with clay (GC)	9.5	132.0
3	IMPORT/PEA GRAVEL MIX- Brown gravelly sand (GW)	8.0	134.0
4	IMPORT- Brown medium coarse sand (SP)	10.0	130.0

Table II: Compaction Tests Results - Excavation Backfill Area

Test No.	Test Depth Below subgrade, ft.	Moisture, Per Cent of Dry Wt.	Dry Unit Weight, Lbs./Cu.Ft.	Per Cent Relative Compaction	Soil Type	Test Date
1	9 0	12.0	116.1	92	1	2/19/02
2	7.0	8 9	123.1	93	2	2/19/02
_ 3	5.0	. 9.8	126.2	94	3	2/19/02
4	3.0	8.8	124 6	94	3	2/19/02
5	1 5	10.2	122.0	94	4	2/19/02
6	0.0	11.1	122 2	94	4	2/19/02

Note 0 = rough subgrade

#### LIMITATIONS

Our recommendations are based on the technical information, our understanding of the proposed project, and our experience in the geotechnical field. We do not guarantee the performance of the project, only that our geological and engineering work and judgments meet the standard of care in our profession at this time.

#### · CONCLUSION

Density tests results indicate adequate compaction at the locations and elevations tested, on the day tested. The present subgrade may require reworking and recompaction if left exposed for more than a few days or affected by adverse weather conditions. Pavement sections should be designed for expected traffic loads by a professional engineer.

The client and property owner are hereby advised and cautioned that compacted fill material, native soils and imported material may have different consolidation potentials, unequal expansion indices and dissimilar vertical bearing values.

#### **CLOSURE**

Our findings were made and recommendations prepared in accordance with generally accepted professional engineering practices, and no further warranty is implied nor made. This report is subject to review by the controlling authorities for this project. We appreciate this opportunity to be of assistance.

Please contact us if you have any questions.

Respectfully submitted,

DREW ASSOCIATES CORPORATION

DREW HADEY

No. 2091
CERTIFIED
ENGINEERING
GEOLOGIST

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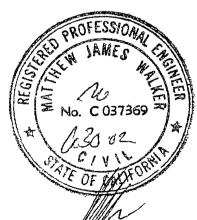
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Drew Haney, Principal C.E.G. #EG2091

DH/ct



Matthew James Walker R.C.E. #C037369

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DICE 01566

# Certificate of Compliance for Compacted Fill Material

Client: PETRO BUILDERS, INC.

Location of fill: Acetone UST excavation backfill

Fill Material: Native and Imported Soil

Tract: Unknown Lot no.: Unknown Site: Air Liquide

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Site address: 8832 Dice Road, Santa Fe Springs, California

Owners name: Unknown Owner's address: Unknown

Per report on our project no.: W.O. 200207 Date fill operations started on project: 02/19/02

Date fill operations completed: 02/19/02

#### To the Superintendent of Building:

\* I hereby certify that I have personally observed and tested the placing of fill on the above described property, and, on the basis of these inspections and tests, it is my opinion that the fill was placed in compliance with the Uniform Building Code.

Civil Engineer: MATTHEW JAMES WALKER

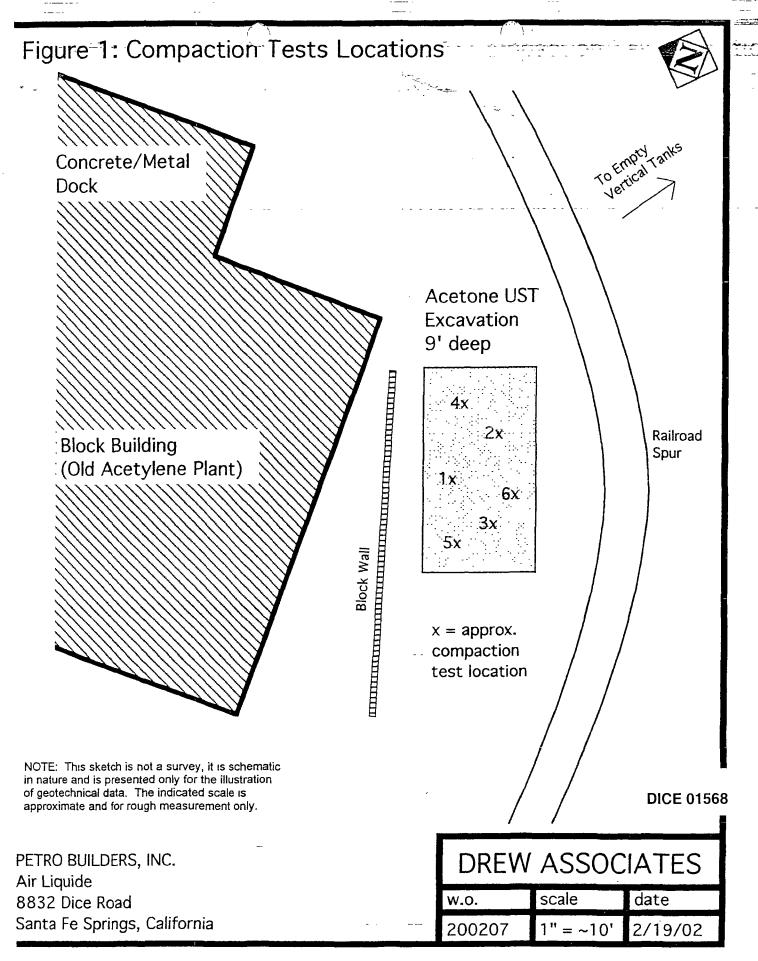
\*For the purposes of this certificate, to "have personally observed and tested" shall include observation and testing by any qualified person responsible to the licensed engineer signing this certificate. The full responsibility shall be assumed by the licensed engineer whose signature is affixed hereon

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**DICE 01567** 

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# Soil Sample Report

# Soil Sampling Following Removal of an Underground Storage Tank Air Liquide, 8832 Dice Road, Santa Fe Springs, California

AGE Project No. LA 706J3.953 05 April 2002

PREPARED FOR:
Petro Builders, Inc.

PREPARED BY:



#### Advanced GeoEnvironmental, Inc.

3315 East Miraloma Avenue, Suite 117, Anaheim, California 92806, Phone (714) 996-5151 • Fax (714) 996-5182 837 Shaw Road, Stockton, California 95215, Phone (209) 467-1006 • Fax (209) 467-1118 2318 Fourth Street, Santa Rosa, California 95404, Phone (707) 570-1418 • Fax (707) 570-1461

# Advanced GeoEnvironmental, Inc.



05 April 2002 AGE Project No. LA 706J3.953

Ms. Joanna Shultz Petro Builders, Inc. 10609 Painter Avenue Santa Fe Springs, California 90670

Subject:

Soil Sampling Following Removal of an Underground Storage Tank - Air Liquide, 8832 Dice Road, Santa Fe Springs, California

Dear Ms. Shultz:

In accordance with your request, we have collected and analyzed soil samples following the removal of a single 6,000-gallon acetone tank at the above referenced address. The enclosed report describes the procedures and findings of this sampling program.

The opportunity to provide this service is greatly appreciated. If you have any questions regarding this matter, please feel free to call our office at (714) 996-5151.

Sincerely,

Advanced GeoEnvironmental, Inc.

Diane Becker

Staff Geologist

Robert D. Loefflet

Project Geologist

California Registered Geologist No. 6709

Enclosures

cc:

(3) addressee

#### Soil Sampling Following Removal of an Underground Storage Tank Air Liquide

8832 Dice Road, Santa Fe Springs, California

#### 1.0. INTRODUCTION

Advanced GeoEnvironmental, Inc. (AGE) was retained by Petro Builders, Inc. (PBI) to collect soil samples following the removal of a single underground storage tank (UST) at the referenced site. The site is located in a light industrial/business park area of moderate topographic relief at an approximate elevation of 150 feet above sea level (Figure 1 – Location Map, 7.5-Minute Whittier Quadrangle; USGS Topographic Series, Photorevised 1981).

#### 1.1. UNDERGROUND STORAGE TANK FACILITY

The former UST was a 6,000-gallon plastic-coated steel tank previously containing acetone. The location of the former UST facility and the immediate surrounding area are depicted on Figure 2 - Site Plan.

#### 1.2. DEPTH TO GROUND WATER INFORMATION

According to the Los Angeles County - Department of Public Works (LA-DPW), Hydrologic Section, the depth to ground water in well number 1632L, located approximately 1/8-mile west of the subject property, was 49.8 feet below surface grade (bsg) in March 2001. No ground water was encountered during the UST removal.

#### 2.0. PROCEDURES

The UST was removed on 12 February 2002 under permit from the City of Santa Fe Springs and the County of Los Angeles (permits attached). Prior to removal, the UST was triple-rinsed by Adams Services and the rinseate was transported by Adams Services to Demenno Kerdoon for recycling (manifest attached). The UST was certified "safe to cold cut" by a marine chemist from Harbor Testing Laboratory (Marine Chemist Certificate No. 10717 attached). The UST was subsequently transported to Hugo Neu-Proler for disposal (tank destruction certificate attached). The UST removal was witnessed by Inspectors Raul Diaz of the Santa Fe Springs Fire Department (SFSFD).

#### 2.1. SOIL SAMPLING

**DICE 01572** 

Soil samples were collected beneath the former UST on 12 February 2002. Samples were collected approximately 2-feet beneath both ends of the former UST from the teeth of the excavator bucket (samples T1-1 and T1-2; Figure 2). One soil sample was also collected from the spoils pile (sample SP-1). The samples were collected by Ms. Diane Becker, staff geologist, working under the direction of Mr. Robert Loeffler, California Registered Geologist No. 6709. This sampling event was directed

Advanced GeoEnvironmental, Inc.

05 April 2002 AGE Project No. LA 706J3.953 Page 2 of 2

of Mr. Robert Loeffler, California Registered Geologist No. 6709. This sampling event was directed by Inspector Diaz.

Each sample was obtained utilizing two 5-gram En-Core<sup>TM</sup> samplers in accordance with EPA method 5035 for sample preservation. The samples were labeled then placed in a chilled container for transport to Chemtek Environmental Laboratories, Inc. (CELI), a state-certified laboratory. Per SFSFD requirements, the samples were analyzed for volatile organic compounds (VOCs) with acctone as the target compound in accordance with EPA methods 8260B and 8015-modified, respectively.

#### 3.0. FINDINGS

No visual evidence of leakage from the UST was observed during the tank removal. However, an organic odor and discoloration in the soil were observed.

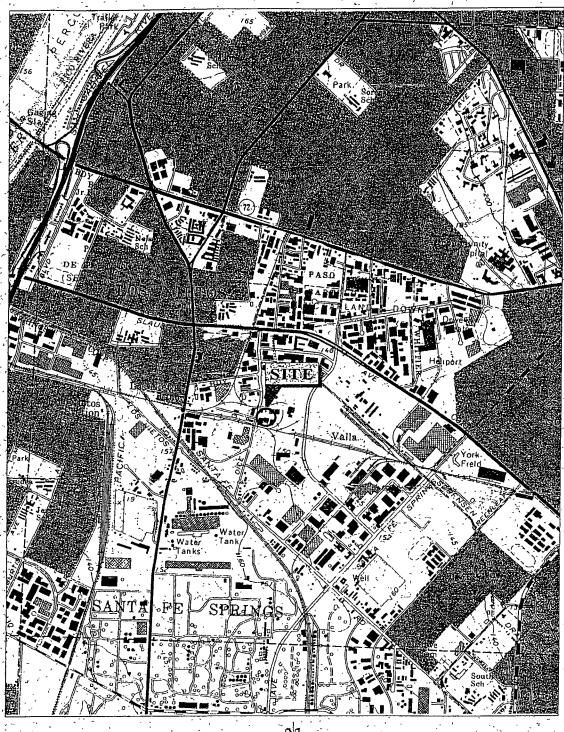
VOCs, including acetone, were not detected in any of the samples collected from the excavation or the spoils pile. The analytical report (CELI Job No. 202026), QA/QC Results and chain-of-custody form are attached.

#### 4.0. CONCLUSIONS

Field observations and the analytical results indicate that no unauthorized release of acetone has occurred beneath the former UST location. Based on these findings, AGE recommends the SFSFD consider granting closure for this site.

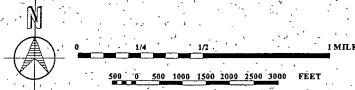
#### 5.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based mainly upon analytical results provided by independent laboratories. Interpretations of the subsurface conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. soil samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.



Reference:

7.5 - Minute Whittier Quadrangle USGS Topographic Series, Photorevised 1981



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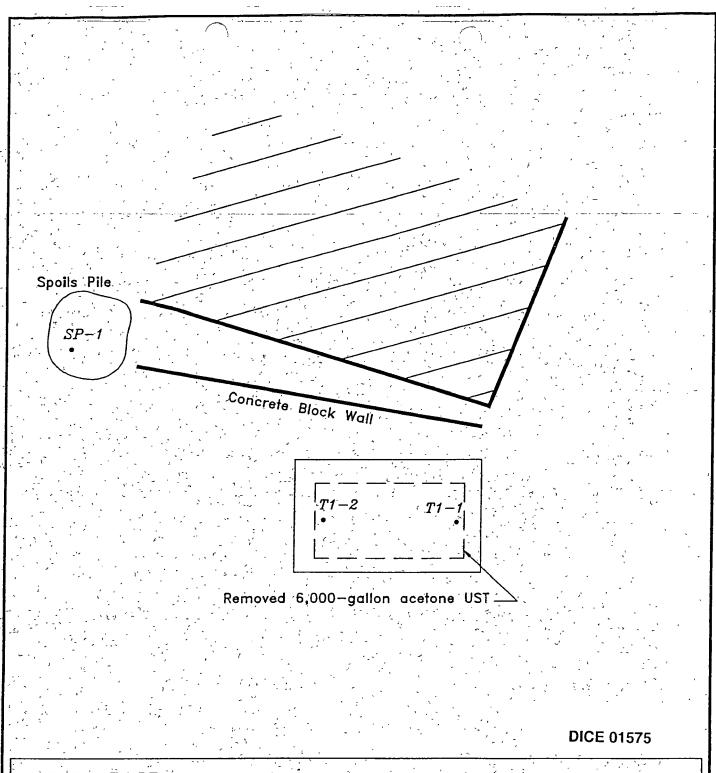
GeoEnvironmental, Inc.

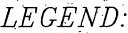
### FIGURE 1 - LOCATION MAP

Air Liquide 8832 Dice Road Santa Fe Springs, California

Project No.: LA 706J3.953

Date: 05 April 2002





T1-2

Soil Sample Location



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SCALE IN FEET

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GeoEnvironmental, Inc.

#### FIGURE 2 - SITE PLAN

Air Liquide 8832 Dice Road Santa Fe Springs, California Project No.:

LA 706J3.953

Date:

05 April 2002

City of Santa Fe S- s Fire Department • Certified Ur Program Agency 11300 Greenstone Avenue

Santa Fe Springs, CA 90670

Phone (562) 944-9713 • Fax (562) 941-1817

### APPLICATION FOR STORAGE TANK CLOSURE

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LOCATION: 8		-	<u> </u>	6.F.S.		<del>-</del>
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Contact Pers	on A.A.C	2 h A) 1				ر
/ Conditi : 0.1	VII 114112	-010		Phone	·562-464-5242	_
be provided. List must inc	inge inpequitat	aor name, ad	dress, phone nu	mber, scope of work, and a cop-	by checking appropriate box. A list of all subcontractors must y of the contractor's license	
Name PE					State License Number	_
Address 10	7000	AIN	EZ A	VE City SFS	Stalc ⊆ 7 Zip 9067 €	<u> </u>
Contact Perso		+NN F	- SHU	C1.7	Phone 562.9462	27
CLOSURE REQUESTED  Permanen  Permanen  Permanen  Temporary  Monitorin	t, tank remo t, tank remo t, closure in y (see condit	val, non-ha val, hazard place (see ion D attac	zardous (see ous (see con condition C : thed)	condition A attached) dition B attached) attached).	ts and conditions listed below	_
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Applicant's Signature	Bala	hR	ara,	jas	Date 1-23-072	
Print Name RALT	P17 5	MIZI	95TAB		Phone 562-9462285	
Title(please check):	Owner	□ Оре	rator	Contractor		
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PERMISSION IS HEREBY CONDITIONS AND LIMIT	I GKANIEL	) TO PRO	CEED WITH	SANTA FE SPRINGS FU I THE CLOSURE DESCI 80 DAYSOROM, THE DA'	VIDED ADOUG CURIECT TO TUE ATTACHED	ار داکار جنده

PEIRO-BUILDERS

C of Santa Fe Springs Fire Deprenent 11300 GREENSTONE AVE • SANTA FE SPRINGS • CA 90670 (562) 944-9713 • FAX (562) 941-1817

### **PLAN REVIEW / PERMIT APPLICATION**

Name of Facility AIR LIQUIDE AFFERICA CORP.  Project Address 8832 DICERD. 5.F.5. I-6,000 UST VENTO  Project Contact AARON L. TESCH Telephone (562) 464-5242 (ACLTONE)  Architect/Engineer Telephone ()	
Project Address 8832 DICERD. S.F.S. 1-6,000 UST VENTO Project Contact AARON L. TESCH Telephone (562) 464-5242 (actions)	,
Project Contact AARON L. TESCH Telephone (562) 464-5242 (actions)	val
Attended Englished	
Address	
CONTRACTOR INFORMATION (if applicable)	
Contractor PETRO BUILDERS INC. Telephone (562) 946-22	75
Address 10609 PAINTER AVE, SFS	
License Class A License Number 241905 Expiration Date 9 /30 /02	
LICENSED CONTRACTOR DECLARATION (if applicable)	
I hereby aftern that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, a	nd my license is
in 6.11 Corne and effect	
Signature Foleh Bara FOR PETRO BOR Date 1 123/01	
OWNER/BUILDER DECLARATION	•
I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city ordinances and state laws construction, and hereby authorize representatives of this city to enter upon mentioned property for inspection purposes.	relating to
1. A. Ma the analysis	
Signature De [1/23/0]	
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FIRE PROTECTION DIVISION FEE $$ ENVIRONMENTAL PROTECTION DIVISIO	N FEE
Preliminary Plan Review (Article 80)	
3 or more Plan Re-Submittal "H" Occupancy	<del>-</del>
Fire Alarm System Emergency Alarm System	
Fire Extinguishing System (Dry Chem System)  Closure Plan/Permit Review	<del> </del>
Fire Sprinkler Systems  UST & AST finstallation/Removal/Modifications	4640
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LDMA P/O #

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FINAL DATE

FINAL BY

TEL NO.

96

PARCEL

ZIP

FOR APPLICANT TO FILL IN

PAGE

NO. OF STORIES NO. OF FAMILIES

MILL THE APPLICANT OR FUTURE BUILDING COCUPANT HAND, E À HAZARDOUS MATERIAL OF A MIXTURE

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I HAVE READ THE HAZARDOUS MATERIALS INFORVATION QUIDE AND THE SCAOMD PERMIT

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BLOCK

BUILDING ADDRESS
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AIR LIGUIDS AMER

7 DIKE RO

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CITY

TRACT

ADDRESS

CONTRACTOR

SIZE OF LOT

ASSESSOR MAP BOOK

ARCHITECT OR ENGINEER

DESCRIPTION OF WORK Ramioval of

USE OF EXISTING BLDG.

APPLICANT (PRINT)

ADDRESS

YOI 🔲 NO 🖫

YES D NO DE

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#### WORKER'S COMPENSATION DECLARATION

iereby affirm that I have a certificate of consent to self insure, or a rtificate of Worker's Compensation Insulance, or a certified copy

Bred (Sec. 3800, Lab. C.)

Bley No. WE 914 03 Company Contract IND IN 3 Company

Certified copy is hereby furnished.

Certified copy is filed with the county building inspection department. te 1-31-07 Applicant 100

CERTIFICATE OF EXEMPTION FROM WORKERS COMPENSATION INSURANCE

is section need not be completed if the permit is for one hundred lars (\$100) or less.)

ertify that in the performance of the work for which this permit is ued, I shall not employ any person in any manner so as to become sject to the Workers' Compensation Laws.

\_\_\_\_\_ Applicant.

TICE TO APPLICANT: If, after making this Certificate of Exemption, should become subject to the Workers' Compensation provisions. he Labor Code, you must forthwith comply with such provisions of i permit shall be deemed revoked.

#### LICENSED CONTRACTORS DECLARATION

ereby affirm that I am licensed underprovisions of Chapter 9 mmencing with Section 7000) of Division 3 of the Business and lessions Code, and my koense is in full force and effect.

tractor PCT 12.0 The Continue of im exempt under Sec. 6 P.C. for this reason...

Inature.

as awner of the property, or my employees with wages as their ole compensation, will do the work and the structure is not intended f offered for sale (Section 7044, Business and Professions Code.)

as owner of the property, am exclusively contracting with licensed ontractors to construct the project (Section 7044, Business and rofessions Code.)

#### CONSTRUCTION LENDING AGENCY

reby affirm that there is a construction landing agency for the ormance of the work for which this permit is issued (Sec. 3097, C.

ter's Name.

der's Address.

tilly that I have read this application and state under penalty of ury that the above information is correct. I agree to comply with ounty ordinances and State laws relating to building construction, heleby authorize representatives of this County to enter upon the re-mentioned property for inspection purposes.

date of Applicant or Alent

1 HAVE BEAD THE MAXABOOD MATERIALS HIS OPPOSITION GUIDER, AND THE SCROOM PRAMISE THIS CHECKLIST I UNDERSTAYD HE REQUIREMENTS WIDDER THE LOS ANGELSE GOUNT CODE, TITLE 2: CHAPTER 2:20 BEOTIO'S 2 20 100 THROUGH 2:20 140 CONCERNING MAXARO OUS MAYERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCROOM. DA'LER OR AGENT

P.C. FEE PERMIT FEE ISSUANCE FEE INVESTIGATION FEE ISSUANCE FEE

SEE REVERSE FOR EXPLANATORY LANGUAGE

SPECIAL CONDITIONS JEL NO. 567524 EWITHIN 1000 FT. OF SCHOOL? YES THOUP TYPE CONST PIRE ZONE DISTRICT STATISTICAL CLASSIFICATION Sun for DWELL UNITS CLASS NO. TOTAL SETBACK FROM REQUIRED HWY SET BACK YARD FRONT SIDE PL SEWER MAP VALUATION

MAP NO.

BUILDING ADDRESS

NEAREST CROSS ST.

LOCALITY

USE ZONE

3 Tall VA

No

APT

PROP LINE

PRODESSED BY

CONDO

Taixa

WIDTH

1 1 in 7 1 w []

----P. 3 APT- 5-2002 9:37AM \_\_ PETRO BUILDERS Sicile of California Environmental Protection Agency Form Approved OMB No. 2050-0039 (Expires 9-30-99) Please print or type. Form designed for use an alm (12-pitch) See Instructions on back of Department of Toxic Substances Control ... Sacromento, Colifornia Information in the shaded areas 1 Ganerator's US EPA ID No UNIFORM HAZARDOUS is not required by Federal law WASTE MANIFEST 0-0-0-3 Generator's Name and Mailing Address AIR LIOSINE HUN BUTH SCHE SARTA PE SPETHOS, GA 90570 CALL 1-800-852-7550 4 Generator's Phone ( 552) 456-5241 5 Transporter 1 Company Name 6. US EPA ID Number ALLES SERVICES. INC SIA L 19 2 2 17 12 3 16 15 15 7 Transporter 2 Company Name B US EPA ID Number 9 Designated Facility Hame and Site Address 10 US EPA ID Number CALITORINIA, 2000 N. LIAMEDA ST. COMPTON, CA 90222 |C|4|T|6|8|0|0|1|3|3|5|Z| 13. Taral 11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) (OIL & WATER, NOW-R.C.E.A. HY VIEILUI - AVE EAZARDOUS WASTE LIGGID 0,0,1 G E N E R A 0 15. Special Handling Instructions and Additional Information DON PROPRE PROTECTIVE GEAR nd smoking; e.r.g. 427 - Comtractor: Petro Belliera, Inc. 16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, pocked, marked, and labeled, and are in all respects in proper condition for nonsport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduct the volume and texicity of woste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of rectment, starage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Month Mer in C. To wish Meinel Stein 17. Eransporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature وسي 18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature 19 Discrepancy Indication Space

DO NOT WRITE BELOW THIS LINE.

20. Fucility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Itam 19.

Year

Doy

Printed/Typed Name

APT D. ZUUZ 9:38AM PETKO BUILDEK	15	No.206/20.P. 4
Thomas D. Beck & Assoc., Inc. FCT 000 dba HARBOR TESTING LABORAFORY 24 HOUR PHONE: (562) 492-9646	7-WY MARIE CI	HEMIST CERTIFICATE Serial # 10717
DETROBULIDEDS A	TIR 21041DE	12 FEB 02
Survey Requested By UNDER BROWN TINK	Vessel Owner or Agent	9832 DICE RID
ACET QUE	Type of Vesqel  LEV D VISUAN  Tests Performed	Specific Location of Vessel  Time Survey Completed
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RED SPRAY PAINT	NOT SATE	t FOR WORKERS
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MSA MICROBARD IN 3236 CALIBRATED C. 0630 /ps 12 PEBOZ

in the event of any physical or atmospheric adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast of manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating colls, valves, and similarly enclosed appuritnances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS' Means that in the compartment of space so designated: (a) the oxygen content of the atmosphere is at least 19.5 porcent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Manna Chemist's Certificate.

NOT SAFE FOR WORKERS. Means that in the compartment of space so designated, the requirements of Safe for Workers have not been met.

ENTERWITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are specified.

SAFE FOR HOT WORK: Means that in any compartment designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot works to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) ho residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and white maintained as inected on the Marine Chemist's Certificate; and further, that, (d) all edjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactority mented, or, in the case of fuel tanks or tube oil tanks, or engine room or fire main bilges, have been treated in accordance with the Marine Chemist's requirements.

IOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

HEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing jist are in accordance with NFPA 306 Control of Gas Hazards on essels and have found the condition of each to be in accordance with its assigned designation.

tensigned admonishedges receipt of this Certificatic under Section 2-6 of NFPA 306 and node conditions and finitiations under which it was issued."

Leces (11 res

This Certificate is based on conditions another at the time the inspection herein set forth was complained and is justified subject to complained with all fullifications and instructions.

4n\_17 ^ h

- MAMIA MAMILEOU.



#### TANK DESTRUCTION CERTIFICATE

DATE:

March 29, 2002

CONTRACTOR:

Petro Builders, Inc.

GENERATOR:

Air Liquide

JOB SITE:

Air Liquide

8832 Dice Road

Santa Fe Springs, CA.

DESCRIPTION

TANK & PIPING:

1 - 6,000 gallon steel gasoline tank

& all associated piping

REFERENCE NO:

Marine Chemist Certificate #10717

February 12, 2002

This is to certify receipt and acceptance of the tanks and associated piping specified above. All materials listed above will be completely destroyed for scrap purposes only.

AUTHORIZED SIGNATURE

**DICE 01581** 



#### ENVIRONMENTAL LABORATORIES INC.

"An environment-friendly company"

14140 E. Alondra Blvd. Suite A, Santa Fe Springs, CA 90670 Tel. (562) 926-9848 FAX (562) 926-8324 CA Dept of Health Accredited. (ELAP No. 1435)

#### CERTIFICATE OF ANALYSIS

Job No. 202026

Date: 02-13-02 

This is the Certificate of Analysis for the following samples:

Client

: Petro Builders

Contact person

: Joanna Shultz

Project No.

Project

: Air Liquide

Project site

Sample date

: 02-12-02

Date received

: 02-12-02

Number of samples: 3

Sample type

: Soil

Sample condition : Good

Sampling method

: EPA 5035 (Encore)

Samples were labeled as follows:

#### SAMPLE IDENTIFICATION

#### LABORATORY NUMBER

T1-1

202026-01A

T1-2

202026-02A

SP-1

202026-03A

Reviewed and Approved:

Michael C.C. Lu

Laboratory Director

#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

Client : Petro Builders

Project No. :

Project : Air Liquide

Project site:

Job No. : 202026

Date:02-13-02

Analysis: EPA 8015M (Acetone) Unit: mg/kg or ppm

Sample ID

: See below

Sample type

: Soil

Sampling method : EPA 5035(Encore)

Sample date : 02-12-02 Analysis date : 02-13-02

IDs Lab	Acetone
01A	ND
02A	ND
03A	ND
ınk	ND
ection Limit	5.0
	01A 02A

ND: Not Detected at the specified limit.

#### CHEMTER ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

#### QA/QC REPORT

#### RPA 8015M (Acetone) Unit: mg/kg

Job No. : 202026

Lab Sample ID. : 202026-03A Date Performed: 02-13-02

Analyte ORIG SPK МS MSD AÇP Result CONC MS MSD RPD %RPD Acetone ND 150 165 110.0 144 96.0 13.6 80-120 0-20

#### CHEMTER ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

Client : Petro Builders

.... Project No. -: ----

Project : Air Liquide

Project site :

Job No. : 202026

Date: 02-13-02

## Analysis: RPA 8260B (Volatile Organics by GC-MS) Unit: μg/kg or ppb page 1 of 2

Sample ID : See below Sample date : 02-12-02 Sample matrix : Soil Analysis date : 02-13-02

Sampling method: EPA 5035

COMPOUND	Tl-1 01A (ppb	T1-2 02A (ppb)	8P-1 03A (ppb)	Detection Limit (ppb)
Benzene	ИD	ND	ND	2
Bromobenzene	ND	ND	ND	2
Bromochloromethane	ND	ND	ND	2 2
Bromodichloromethane	ND	ND	ND	2
Bromoform	ND	ND	ND	2
Bromomethane	ND	ND	ND	2
n-Butylbenzenc	ND	ИD	ИD	2
sec-Butylbenzene	ND	ND	ND	2
tert-Butylbenzone	ND	ND	ND	2
Carbon Tetrachloride	ND	ND	ND	<b>2</b>
Chlorobenzen@	ND	ND	ND	2
Chloroethane	ИD	ND	ND	2
Chloroform	ND	ND	ND	2
Chloromethane	ND	ND	ND	2
2-Chlorotoluene	ND	ND	ND	2 2
4-Chlorotoluene	ND	ND	ND	2
2-Chloroethyl vinyl ether	MD	ND	ND	2
Dibromochloromethane	ЙD	ND	ND	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	2
1,2-Dibromoethane (EDB)	ND	ND	ND	2 2
Dibromomethane	ИD	ND	ND	2
1,2-Dichlorobenzene	ND	ND	ND	2
1,3-Dichlorobenzene	ND	ND	ND	2
1,4-Dichlorobenzene	ND	ND	ND	2 2
Dichlorodifluoromethane	ND	ND 1	ND	2
1,1-Dichloroethane	ND	ND	ND	2
1,2-Dichloroethans	ND	ND	ND	2
1,1-Dichloroethene	ND	ND	ND	2
cis-1,2 Dichloroethene	INTO	ND	ND	<b>2</b> ·
trans-1,2-Dichloroethene	ND	ND	ND	2
1,2-Dichloropropane	МD	ND	ND	2
1,3-Dichloropropane	ND	ND	ND	2

continued next page

ND: Not detected at the specified limit.

#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

Job No. 202026

## Analysis: EPA 8260B (Volatile Organics by GC-MS) Unit: µg/kg or ppb page 2 of 2

Sample ID : See below Sample matrix : Soil

Sampling method: EPA 5035

Sample date : 02-12-02

Analysis date: 02-13-02

COMPOUND	T1-1 01A (ppb)	T1-2 02A (ppb)	5P-1 03A (ppb)	Detection Limit (ppb)
2,2-Dichloropropane	ND	ND	ND	2
1,1-Dichloropropene	ND	ŅD	ND	2
cis-1,3-Dichloropropene	ND	ND	ND	2 2
trans-1,3-Dichloropropene	ND	מא	ND	2
Ethylbenzene	ND	ND	ND	2
<b>Hexachlorobutadiene</b>	ND	ND	MD	2 2
Isopropylbenzene	ND	ND	ND	2
4-Isopropylcoluene	ND	ND	ND	2
Methylene Chloride	ND	ND	ND	2
Naphthalene	ND	ND	ND	2
n-propylbenzene	ND	ND	ALID CLK	2
Styrene	ND	ND	ND	2
1,1,1,2-Tetrachloroethane	ND	ND	ND	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	2
Tetrachloroethene (PCE)	ND	ND	No	2
Toluene	ND	ND	ND	2 2
1,2,3-Trichlorobenzene	ND	ND	ND	2
1,2,4-Trichlorobenzene	ND	ND	ND	2
1,1,1-Trichloroethane	ND	ND	ND	. 2
1,1,2-Trichloroethans	ND	ND	ND	2
Trichloroethene	ND	ND	ND	2
Trichlorofluoromethane	ND	ND	ND	2
1,2,3-Trichloropropane	ND	ND	ND	2
1,2,4-Trimethylbenzene	ND	ND	ND	2
1,3,5-Trimethylbenzene	ND	ND	ND	2
Vinyl Chloride	ND	ND	ND	2
Total Xylenes	ND	ND	ND	4
Additional compounds				
Acetone	ND ·	ND	ND	15
Ethanol	ND	ND	ND	15
2-Butanone (MEK)	ND	ND	ND	15
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	15
2-Hexanone	ND	ND	ND	15
Methyl Tert. Butyl Ether (MTBE)	ND	ND	ND	2
Ethyl Tert. Butyl Ether (ETBE)	ND	ND	מא	5
Diisopropyl Ether (DIPE)	ND	ND.	ND	5
Tert. Amyl Methyl Ether (TAME)	ND	ND	ND	5
T-Butyl Alcohol (TBA)	ND	ND	ND	20
	AD	+12	112	20

1.33.

ND: Not detected at the specified limit.

4

#### CHEMTEK ENVIRONMENTAL LAB. LABORATORY ANALYSIS REPORT

#### QA/QC REPORT

#### EPA 8260B Unit: μg/kg

Job No. : 202026 Lab Sample ID : 202026-03A Date Performed : 02-13-02

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ANALYTE	ORIG. RESULT	CONC.	MS	<u>we</u> \$	<u>msd</u>	mad f	RPD	acp <u>*ms</u>	ACP RPD
1,1-DCE	ND	20.0	21.3	106.5	20.4	102.0	4.3	70-130	0-30
Benzane	ND	20.0	22.3	111.5	19.4	97.0	13.9	70-130	0-30
TCE	ND	20.0	21.0	105.0	19.0	95.0	10.0	70-130	0-30
Toluene	ND	20.0	22.0	110.0	20.2	101.0	8.5	70-130	0-30
Chloro benzene	ND	20.0	21.4	107.0	19.8	99.0	7.8	70-130	0-30

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CHEMTEK ENVIRONMENTAL LABORATORIES INC.

14140 Alondra Boulevard, Suite A Santa Fe Springs, Ca. 90670 Tel: (562) 926-9848 Fax: (562) 926-8324

Note:
Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

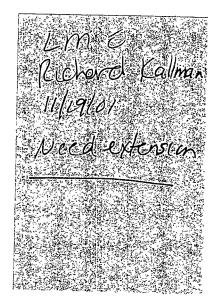
\* Key' AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum'

DISTRIBUTION: WHITE with report / YELLOW To CHEMTEK / PINK To courier



Richard A. Kallman PE, REA Environmental Protection Specialist

Headquarters Fire Station 11300 Greenstone Avenue Santa Fe Springs, CA 90670-4619 (562) 944-9713 `Fax (562) 941-1817 www.santafesprings.org





# CITY SANTA FE SPRINGS FIRE DEPA MENT -

Environmental Protection Division • Certified Unified Program Agency 11300 Greenstone Ave • Santa Fe Springs, CA • 90670. Tel (562) 944-9713 Fax (562) 941-1817

## CUPA INSPECTION REPORT

PERMIT NO: 60	J003 <del>4</del>	<b>✓</b> НМВР	✓ UST
BUSINESS NAME: AI	R LIQUIDE AMERICA	<b>☑</b> HWG	CalARP .
SITE ADDRESS: 88	332 DICE,	Industrial Waste	SPCC
		✓ UFC	✓ Storm Water
SIC CODE: 28	313	Tiered	LQG
INSPECTOR: ARA	ĄK/RD	PBR-HHW	Recycler
Inspected by Pieland	tallma-	Date: 10	124101

Refer to Title 19, 22, & 23 of the California Code of Regulations (CCR), Chapters 65, 67, 667, & 695 of the Health and Safety Code (CHSC) The following Code selections are either in Violation (V) of, or in Compliance (C), or compliance is Not Applicable (N)

Inspection consent given by: Asron Tesch									
HAZARDOUS WASTE GENERATOR		V	C	N	Hazardous Waste Generator continued	V	C	N	
1 Hazardous Waste Generator Permit	CITY ORD 97 400		75		27 HazWasie Transported to proper TSDF CHSC 25163	+-	X		
2 Hazardous Waste Determination made	CCR 66262 11		Y	╗	28 HazWaste Transported by register hauler CCR 66263 17	+-	X		
3. EPA ID Number obtained	CCR 66262 12(a)	П	Z		29 Excluded Recyclable Mat record-keeping CHSC 25143 2	+		$\mathbf{X}$	
4 Proper Disposal of Hazardous Waste	CHSC 25189 5(a)		X		30 Recyclable Mat. Reporting Form filed CHSC 25143 10	1-		又	
5 Operate/maintain to prevent release/fire	CCR 66265 31		X		31 Used Oil Receipts complete/available CHSC 25250 8(b)	1	X		
6 Labeling requirements met	CCR 66262 34(f)		X	-1	32 Proper management of Used Oil CHSC 25250 4	╅┈	X		
7 Hazardous Waste Accumulation Time	CCR 66262 34(e)(1)		X	ᆌ	33 Used Oil not contaminated CHSC 25250.7	1	ΙΣ I		
8 Hazardous Waste Containers sound	CCR 66265 171		8		34 Proper management of Used Oil Filters CCR 66266 130	1		$\nabla$	
9 Hazardous Waste Containers not leaking	CCR 66265 173(b)		X		35 Proper management of Used Batteries CCR 66266 81	1		X	
10 Hazardous Waste Containers closed	CCR 66265 173(a)	П	X		36 Proper mngmt. of Contaminated Rags CHSC 25144 6			$\nabla$	
11 Separation of Incompatible HazMat	CCR 66265 177(c)		X		HAZARDOUS MATERIALS BUSINESS PLAN				
12 Proper rangent Contaminated Containers	CCR 66261 7(f)	П		X	37 Business Plan established and filed CHSC 25503 5	T-	X	$\Box$	
13 Storage Area inspected weekly	CCR 66265 174		$\mathbf{x}$		38 Business Plan updated/accurate CHSC 25505	1/2			
14 Tanks inspected daily	CCR 66262 34(d)(2)			X	39 Regulated Substances Reg. completed CHSC 25533(a)	Υ=		$\mathbf{x}$	
15. Satellite Accumulation requirements met	CCR 66262 34(e)		H	X	UNDERGROUND STORAGE TANK				
16 Contingency Plan established	CCR 66265 51	Н	X	$\dashv$	30 Tank meets requirements CCR 23 Div. 3, Ch16	T	X	-	
17. Waste Transported w/ proper documents	CCR 66262.20(a)	Н		-1	41 Tank meets requirements UFC Article 52	+-	121	ᅱ	
18 Hazardous Waste Manifest complete	CCR 66262 23(a)	$\vdash$	8	-1	42 Tank meets requirements CHSC, Ch 6.7	+	×		
19 Manifest copies scrit to DTSC	CCR 66262 23(a)(4)		\$		ABOVEGROUND PETROLEUM STORAGE TANK	.J		$\dashv$	
20 Manifest copies retained for 3 years	CCR 66262 40(a)	$\vdash$			43 SPCC Plan complete per requirements CHSC 25270 3	T		V	
	CCR 66268 7(a)	Н	<del>(</del>		TIERED PERMIT	1	لـــا	괵	
		$\vdash$	Ž	$\dashv$				ᅱ	
22 Milk-run operation record-keeping	CHSC 25144 6	$\vdash$	_	X		<del>-</del>	$\vdash$	↤	
23 Biennial Report prepared	CCR 66262 41	Н	×		45 Certificate to financial assurance CCR 67450 13(a) UNIFORM FIRE CODE	1	نـــا	싀	
24 HazWaste Analysis retained for 3 years	CCR 66262 40(c)	Н		-1				-	
25 Personnel Training requirements met	CCR 66265.16	Н	×	$\mathbf{G}$	46 Compliance for flam & combust liquids UFC Article 79	-	$\vdash$		
26 SB14 requirements met for LQG's	CCR 67100 3	<u> </u>		X.	47 Compliance for Hazardous Materials UFC Article 80	<u> </u>	<u></u> _	_	
NARRATIVE/COMMENTS  ABOUT TESCH IS SUPPLY CONDUCTED  Level to update BAMBP - Send dadabase to Aaron  Deed to remove UST  Clouther - no solids  3 ABTS - Mark as empty  3 Sprinkler risers as year cert?  4 HMBP Webs poddle									
Program Inspected: HMBP   HWG   LQG   UST   TP   PBR   CalARP   SPCC   SWPPP   IW   RECYCLER   Inspection Type: Routine   Other   HWG Status: LQG   SQG   CA ONLY   RECYCLER   CESQG Silver   SPG   Number of Employees.   Inspection Category: Single Program   Combined   Joint   Integrated/Multi-Media   NOV Issued   CalARP   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employees.   Employe									



## CITY OF SANTA FE SPRINGS FIRE EPARTMENT

Fire Protection Division - Environmental Protection Division
11300 Greenstone Avenue - Santa Fe Springs, CA 90670-4619 - (562) 944-9713 • FAX (562) 941-1817 • fire@santafesprings.org

# NOTICE OF VIOLATION & ORDER TO COMPLY

Busin	less Name: Art Louise Contact: Toby Ericksen
Site A	Address: 8837 Bice Unit # Telephone: 945-1383
Busin	less Owner: Inspected by: Related tallmout
Complia Due Date	
TTEM	DESCRIPTION OF VIOLATIONS:
1.	repetate chemical inventory/contingency plan (H-05C6.95)
<b>7</b> .	For goe sensore (UFC 79/80).
	Do Waste Goldtons Found
3	UST Forms (CCR)
	- UST Facility - Porms enclosed Not Required
	- Tank Page 1 + 2
4	Repair of pump in sump per inspection on 11/2/00 (ccr)
5	Provide copy of repairs including monitor certification
	DICE 01591
6	Pay cupA fees of \$7,906 - zopy of invoice attached  * Also late fee - \$100 due
notice a	we conditions or practices represent a violation of the referenced code for which there are civil and or criminal penaltics. Failure to the above violations by the specified due date may result in legal action being taken against the above parties. The giving of this and recent inspection of your facility is not a representation by the City of Santa Fe Springs that no other violations exist on your s. After you have corrected the violation, please sign and print your name along with the date and return this notice with any required nation to the Santa Fe Springs Fire Department at the above address.  I HEREBY CERTIFY THAT THE ABOVE SPECIFIED VIOLATIONS HAVE BEEN CORRECTED.
	Signature of Responsible Party — Name - Printed Date

WHITE - OWNER/OCCUPANT COPY

CANARY - FIRE DEPARTMENT COPY

PINK - FPB/EPD COPY, ARY, FG.E., -

# Triangle Environmental, Inc.

2525 West Burbank Blvd., Burbank, CA 91505-2302 (818) 840-7020 Fax: (818) 840-6929

## T.E.I. UST TESTING SYSTEMS SUMMARY SHEET

Precision Underground Storage Tank System Leak Test

Client:

Air Liquide America Corporation 8832 Dice Rd.

Santa Fe Springs, CA 90670

Work #: 511441

**Test Date: 11/2/00** 

Facility:

Air Liquide America Corporation 8832 Dice Rd. SANTE FE SPRINGS, CA 90670 County: Los Angeles

Cross Street: Slauson and Los Nientos

Tank Line
Tank# Product Capacity Test System Type Rate/Results Ullage Result Rate/Result L/D Result

Cortified By:

Technician: Stephen Graham

State Lic. #s:

Mfgr's #: TEI-055

Comments:

Monitor certification

This precision tank testing system exceeds the criteria required by Local, State and Federal NFPA #329 and EPA UST Technical Standards Part 280 for precision testing systems.

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# Triangle Environmental, Inc.

2525 West Burbank Blvd., Burbank, CA 91505-2302 (818) 840-7020 Fax: (818) 840-6929

## T.E.I. UST MONITOR CERTIFICATION SUMMARY SHEET

Client:

Air Liquide America Corporation

8832 Dice Rd.

Santa Fe Springs, CA 90670

Work #: 511441

**Test Date:** 11/2/00

Facility:

Air Liquide America Corporation

8832 Dice Rd.

SANTE FE SPRINGS, CA 90670

County: Los Angeles

Cross Street: Slauson and Los Nientos

Monitor model: MSA TANKGARD 4 CHANN

Serial #: 1965

Sensor Type:	Quantity:	Result:		
Tank Annular :	1	PASS	Annular Type:	DRY
Waste Oil Annular :	0	N/A	Audible Alarm?	Yes
Waste Oil Sump:	0	N/A	Visual Alarm?	Yes
Vadose Wells :	0	N/A	Fail Safe?	Yes
Line Pressure :	0	N/A	Positive Shut-off?	Yes
Turbine Sump :	1	PASS	Gauge Only Result:	N
Line Trench :	0	N/A	ATG Monthly Test?	No
Fill Sump :	o o	N/A	ATG CSLD?	No

Comments:

This certifies that the monitor and sensors, as listed above, are operational and calibrated per the manufacturer's specification.

Inspected By:

Stephen Graham

## MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California
Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16. Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. If more than one monitoring system control panel is installed at the facility, a separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date. Instructions are printed on the back of this page.

A. General Information	
Facility Name: Ain Cight do	Bldg. No.:
Site Address: 8832 Dien ad	City: South to Spiner, Eip:
Facility Contact Person:	Contact Phone No.: (
Make/Model of Monitoring System: 1775	MANGOAND TV Date of Testing/Servicing: 11/2/00
B. Inventory of Equipment Tested/Certif	• •
Check the appropriate boxes to indicate specific e	quipment inspected/serviced:
Tank ID: ACE ONE	Tank ID:
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
•	Solor   Annular Space or Vault Sensor. Model:
Piping Sump / Trench Sensor(s). Model: Varon	
G Fill Sump Sensor(s). Model:	
Mechanical Line Leak Detector. Model:	
C Electronic Line Leak Detector. Model:	
Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
Dispenser Containment Sensor(s). Model:	Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	Shear Valve(s)
Dispenser Containment Float(s) and Chain(s).	D Dispenser Containment Floan(s) and Chain(s).
Other (specify equipment type and model in Section E	
Tank ID:	Tank ID:
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
Annular Space or Vault Sensor. Model:	Annular Space or Vault Sensor, Model:
D Piping Sump / Trench Sensor(s). Model:	
☐ Fill Sump Sensor(s).  ☐ Mechanical Line Leak Detector:  Model:  Model:	
Electronic Line Leak Detector. Model:	
☐ Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
☐ Dispenser Containment Sensor(s). Model:	Dispenser Containment Sensor(s), Model;
☐ Shear Valve(s).	☐ Shear Valve(s).
Other (specify equipment type and model in Section E	
<ul> <li>Dispenser Containment Float(s) and Chain(s).</li> <li>Other (specify equipment type and model in Section E of C. Certification - I certify that the equipment manufacturers' guidelines. Attached to this</li> </ul>	Dispenser Containment Float(s) and Chain(s).  On Page 2).  Other (specify equipment type and model in Section E on Page 2).  It identified in this document was inspected/serviced in accordance with the Section is information (e.g. manufacturers' checklists) necessary. Site Plan showing the layout of monitoring equipment. For any equipment attached a copy of the (check all that apply):
Technician Name (print): 5 6747041	Cert./Lic. No.: 16フランスリン: Signature: - 新聞
Testing Company Name:	TEL Phone No.: (#17.) Pro 7050
CALM-01	Page 1 of 3 11/15/92

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CALM-01

Page 3 of 3

11/15/99

## UST Monitoring Site Plan

Site Address:

A. R. (19 to the State Roll Share & Springer CA.

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#### Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

CALM-02 Page \_\_\_\_ of \_\_\_\_ 11/15/99

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Environmental, Inc.  2525 W. BURBANK BLVD.  BURBANK, CA 91505-2302	NOV 0 3 2000  TEL-(818) 840-7020  FAX: (818) 840-6929	WORK ACKNOW  DATE:  /- FACILITY#: Air ADDRESS: 8832 CITY/STATE: Make COUNTY LA	Dick Rd / Show - Los Nicks
TANK TIGHTNESS TEST PRODUCT LINE TEST LEAK DETECTOR TEST	MONITOR CE FACILITY INS VAPOR RECO	<del></del>	
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MSA h	NEWIN JO 1/2 /96  Description	S PARTS   Quantity/	Description
		TIME	
	,	ARRIVAL: /	LABOR HOURS: 2.7  10 TRAVEL HOURS: 4.2  60 LESS MEAL TIME:
CUSTOMER PRINT NAME	X toby Fricks	(8 h	DATE: //· 2100

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# Triangle Environmental, Inc.

2525 West Burbank Blvd., Burbank, CA 91505-2302 (818) 840-7020 Fax: (818) 840-6929

## T.E.I. UST TESTING SYSTEMS SUMMARY SHEET

Precision Underground Storage Tank System Leak Test

Client:

Air Liquide America Corporation 8832 Dice Rd. Santa Fe Springs, CA 90670 Work #: 61748

**Test Date:** 11/2/00

Facility:

Air Liquide America Corporation

8832 Dice Rd.

SANTE FE SPRINGS, CA 90670

County: Los Angeles

Cross Street: Slauson and Los Nientos

Tank	# Product	Capacity	Test System Type	Tank Rate/Results	Ullage Result	Line Rate/Result	L/D Result
1	Acetone	6000	System 5000	FAIL	FAIL	N/A -	N/A

Certified By:

Technician: John Mason

State Lic. #s: CA-1073

Mfgr's #: TEI-042

Comments:

Failed tank test.

This precision tank testing system exceeds the criteria required by Local, State and Federal NFPA #329 and EPA UST Technical Standards Part 280 for precision testing systems.

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# Triangle Environmental, Inc.

T.E.I. SYSTEMS TANK, LINE AND LEAK DETECTOR TEST REPORT

Facility: Air Liquide America Corporation

Tank #: 1

Product: Acetone Test Date: 11/2/00

Test Method: System 5000 6000 Capacity: 96 Diameter (in): Product Level (in): 54 Liquid Volume (Gals): 3486 Liquid Percent (%): 58.1% 0.700 Specific Gravity: Coef. of Expansion: Water On Tank (in): Water In Tank (in): Product Temp. (F): Head Pressure (psi): 1.4 Test Start Time: 3:00 PM Test End Time: 3:30 PM Test Rate (gph): FAIL Test Result:

Test Method: ULLAGE
UllageVolume (gals.): 2514
Ullage Test Time: 3:00 PM
Ullage Vacuum (psi): 1.9
Ullage Result: FAIL

Test Method: R.J. FTA

Manufacturer:

L/D Model:

L/D Serial #:

Line Drain Back (ml):

L/D Trip Time (sec):

Holding Pressure (psi):

Metering Pressure (psi):

L/D Test Rate (gph):

L/D Result: N/A

Work #: 61748

Test Method:
Pump Brand:
System Type:
Line Pressure (psi):
Line Start Time:
Line End Time:
Line Start Level:
Line End Level:
Line Test Rate (gph):
Line Test Result: N/A

Ullage failure



## CALIFORNIA CALIBRATIONS COMPANY

## Certificate of Instrument Calibration

Issued to:

AIR LIQUIDE

Reference:

Model:

ISA-44-4

Serial#:

644

WO#:

279265

To Whom It May Concern:

This is to certify, that the above referenced instrument was calibrated by California Calibrations Company as a part of your Service Request.

The Calibration was performed as prescibed by ENMET Corporation, per the Service Manual for the unit.

Alarm Set-Points are as follows:

SO2 2/5 ppm Methane 10/20% LEL NO 50/100ppm CO 35ppm O2 19.5% by Volume

Next Recommended Calibration is:

3-8-2001

I do trust that the above information is sufficient for your purpose.

Sincerely,

California Calibrations Repair Department

9 DEWBERRY • RANCHO SANTA MARGARITA, CA • 92688 PHONE/FAX: 949-858-8184 • PAGER: 949-767-1772



# CALIFORNIA CALIBRATIONS COMPANY

## Certificate of Instrument Calibration

Issued to:

AIR LIQUIDE

Reference:

Model:

ISA-44-8

Serial#:

962

WO#:

279265

To Whom It May Concern:

This is to certify, that the above referenced instrument was calibrated by California Calibrations Company as a part of your Service Request.

The Calibration was performed as prescibed by ENMET Corporation, per the Service Manual for the unit.

Alarm Set-Points are as follows:

LEL METHANE 5/10% LEL

BUTANE 10/20% LEL

METH CHLORIDE 100/200ppm

HYDROGEN 10/20ppm

CO/H2S 35/100 ppm

NO 25/50ppm

S02 2/5 ppm

OXYGEN 19.5% BY VOLUME

Next Recommended Calibration is:

3-8-2001

I do trust that the above information is sufficient for your purpose.

Sincerely,

California Calibrations Repair Department

9 DEWBERRY • RANCHO SANTA MARGARITA, CA • 92688 PHONE/FAX: 949-858-8184 • PAGER: 949-767-1772



June 7, 2001

Richard Kallman Raul Diaz City of Sante Fe Springs 11300 Greenstone Ave Santa Fe Springs, CA 90670

Dear Sirs:

This letter is to serve as the update for the primary and secondary contacts for the Air Liquide facility located at 8832 Dice Road.

Primary and Environmental Contact:

Aaron Tesch

Business: 562-464-5242

FOIA ex 6, Personal Privacy

Secondary Contact

Bill Cardoza

Business: 916-771-0344

FOIA ex 6, Personal Privacy

Sincerely,

**Toby Erickson** 

Former Plant Manager

Director Medical Gas Operations



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CITY - SANTA FE SPRINGS										105
DUN & BRADSTREET 05-981-9680										107
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III. ENVIRONMENTAL CONTACT										
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Air Liquide America Corporation 12800 West Little York Houston, TX 77041

# **Fax Cover**

Date:	2/11/02	Pages: _	3  Kelly Davidson  ALAC - HSE					
To:	Aaron Tesch & Josh M.	From:						
Company:	ALAC - SFS	Company:_						
Fax:	562-693-1156	Fax:	713-896-2879					
Phone:	562-464-5242	Phone:	713-896-2887					
Re:	Application & permit for UST removal							
□ Urgent	nt □ For Review □ Please Comment □ As requested							
Comments	<b>3:</b>							
Aaron,								
Well from		able to read	e state. The permit did not fax it on the second fax. But it is					
Thanks,								
Kelly								

PROPERTY OF AIR LIQUIDE AMERICA CORPORATION. The information in this facsimile message is intended only for the use of the individual or entity named above and may be confidential. Any unauthorized dissemination, distribution, or duplication of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone. Thank you.

Feb. 11. 2002 11:41AM PETRO BUILDERS No. 0227 Pour of Santa Fe Strings Fire Department • Certified Ut and Program Agency 11300 Greenstone Avenue

Santa Fe Springs, CA 90670

Phone (562) 944-9713 • Fax (562) 941-1817

## APPLICATION FOR STORAGE TANK CLOSURE

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Contact Perso	on A-A-12	DN L	·TES	Phone	562-464	-5242
Name PE	ude subcontract	or nume, addi SUILO AINT	ess, phone num ERS ER AV	her, scope of work, and a copy	of the contractor's license.  State License 1	Number  tate 7 Zip 9067 © Phone 562-94622
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Applicant's Signature_	May	MK	Jara	Jose	Date	1-23-02
Print Name RAL	PH I	3AR.	AJAG	7	Phone	562-9462285
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## gs Fire Depar f Santa Fe Sp 11300 ∪ KEENSTONE AVE⊅SANTA FE SERINGS • → 90670 3(562) 944-9713 • TAX (562) 94141817

# POST ON JOB SITE

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#### CONTRACTOR INFORMATION (if applicable)

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CONCEPTUAL CLOSURE PLAN

LIQUID AIR CORPORATION 8832 DICE ROAD SANTA FE SPRINGS, CALIFORNIA 90670

4 SEPTEMBER 1992

K/J 924004.00

Kennedy/Jenks Consultants

CONCEPTUAL CLOSURE PLAN

LIQUID AIR CORPORATION 8832 DICE ROAD SANTA FE SPRINGS, CALIFORNIA 90670

4 SEPTEMBER 1992

K/J 924004.00

### **Engineers and Scientists**

17310 Red Hill Avenue Suite 220 Irvine California 92714 714 261-1577 FAX 714-261-2134

4 September 1992

Mr. Robert Predmore
Director of Engineering
Liquid Air Corporation
2121 North California Blvd.
Walnut Creek, California 94596

Subject:

Conceptual Closure Plan of Lime Pits at Liquid Air Facility, Santa Fe Springs, California

Dear Mr. Predmore:

We are pleased to submit this Conceptual Closure Plan for the two lime pits located at the Liquid Air Facility in Santa Fe Springs, California. This plan incorporates revisions requested in Mr. David N. Simon's letter dated 14 August 1992.

Please call if you have any questions or require additional information.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Midellich

Mark L. Walden Project Geologist

Bruce Thomas Project Manager

MLW:WRB/ca

Attachment

**CONCEPTUAL CLOSURE PLAN** 

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#### 1.0 INTRODUCTION

This report presents a Conceptual Closure Plan for two lime pits located at the Liquid Air Facility at 8832 Dice Road, Santa Fe Springs, California (Figure 1). The conceptual closure plan was developed to provide protection to the environment and facilitate proposed post-closure land uses.

#### 1.1 Background

The Liquid Air Santa Fe Springs Facility produces acetylene for industrial uses along with repackaging other gases used for industrial and medicinal purposes. These other gases include carbon dioxide, hydrogen, helium, nitrogen, dinitrogen dioxide, oxygen, propane, and fuel gases. As a by-product of the acetylene manufacturing process, a solution of calcium hydroxide (Ca(OH)<sub>2</sub>) is generated. This solution has historically been discharged into two unlined pits located at the east end of the facility. The pits measure approximately 100' long, 80' wide, 25' deep; and approximately 250' long, 100' wide, 25' deep (Triad Geotechnical Consultants, 1991; see Figure 2 for approximate locations). The solution is allowed to evaporate in the pits leaving lime on the bottom. The lime is then removed, dried, and sold commercially as a stabilizing agent for road construction.

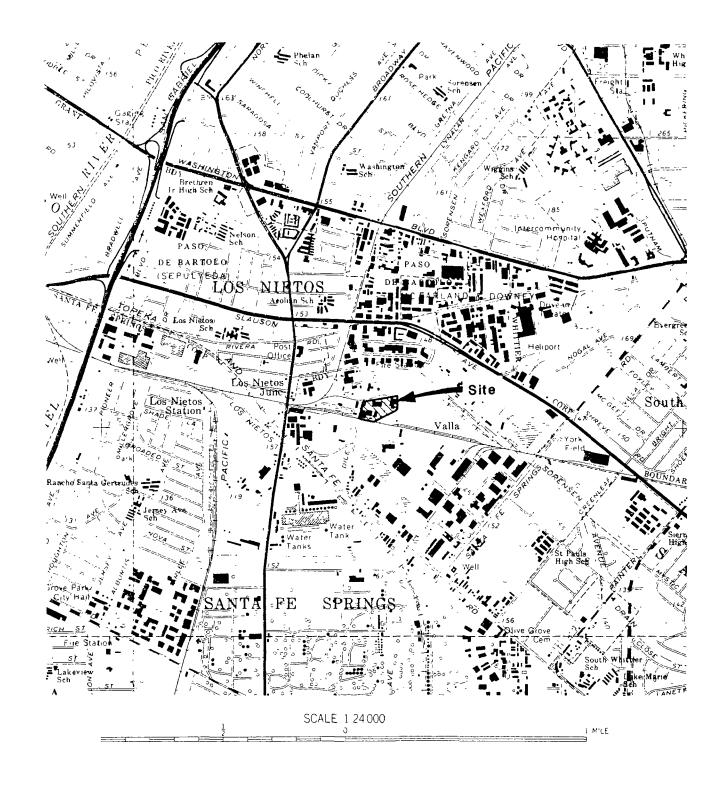
#### 2.0 GEOLOGY

A field investigation report of the subsurface soils in and around the immediate vicinity of the two lime pits titled <u>Stability Analysis for Open Pit. 8832 Dice Road</u>, <u>Santa Fe Springs</u>, <u>California</u>, dated 13 May 1991, was prepared by Triad Geotechnical Consultants, Inc. (included herein as Appendix A). The following is a brief summary of the soils encountered and described in the report:

A total of five borings were advanced into the subsurface soils to depths ranging from 11 feet below ground surface (bgs) to 21 feet bgs. The soils encountered were identified as fill material from five to 13 feet in depth. These soils were described as moist, medium dense to dense, silty sands and sands. Native soils were encountered underlying the fill and consisted of silty sands, sandy silts, and clayey silts. These native soils were described as fine, cohesive, slightly moist to moist, slightly porous, and medium dense to dense. No groundwater was encountered in any of the borings during the investigation. Appendix A presents the Triad Geotechnical, Inc. report.

#### 3.0 PREVIOUS INVESTIGATIONS

A governmental agency file search was conducted for the development of this Conceptual Closure Plan. During the course of the file reviews, various investigative reports regarding the two lime pits were encountered. One report reviewed was <u>Waste Classification Form Submission for Liquid Air Corporation</u>, Santa Fe Springs, California



Source: USGS Topographic Map, Whittier Quadrangle 7.5 Minute Series 1965, Photo Revised 1981

# Kennedy/Jenks Consultants

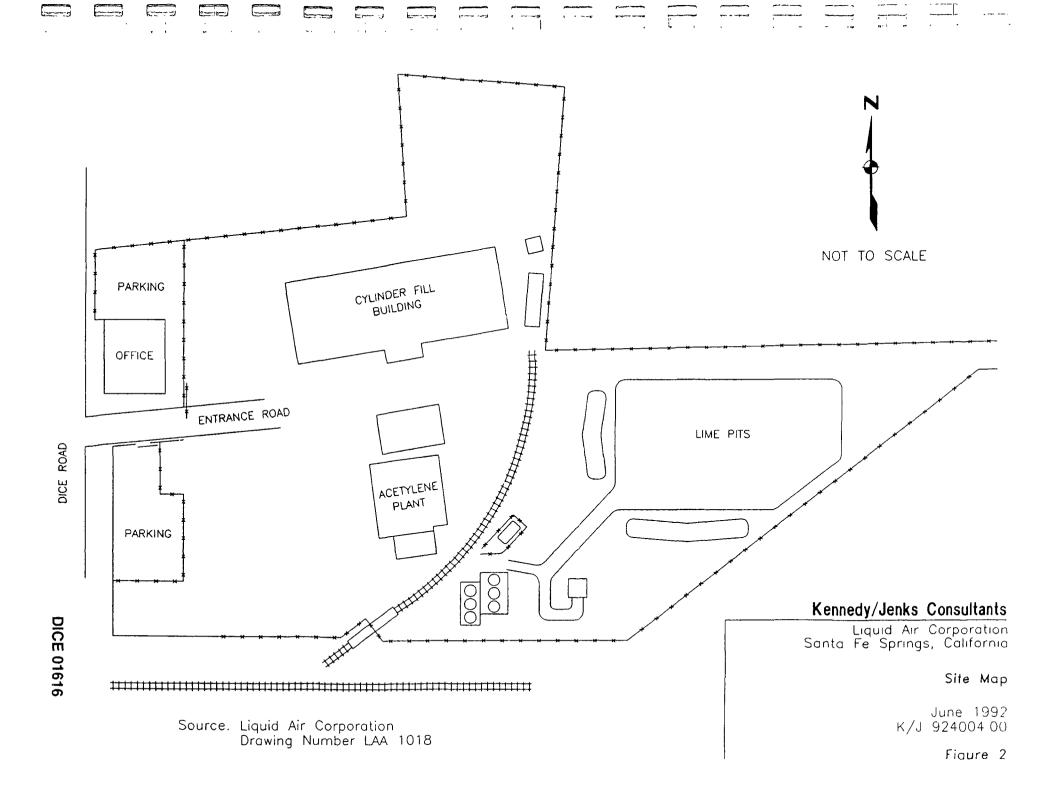
Liquid Air Corporation Santa Fe Springs, California

Vicinity Map

June 1992 K/J 924004.00

DICE 01615

Figure 1



prepared by Ralph Stone and Company, dated 24 June 1987. This report documents the collection and laboratory analyses of soil samples from the two lime pits to determine whether the pits contained hazardous materials.

The report summarizes the results of chemical analyses of eight soil samples collected from the two pits and compiled into one composite sample for analysis. Each pit reportedly routinely received the same waste solution with no variation in its chemical constituents. The composite sample was chemically analyzed for the following parameters:

- Inorganic Analysis, Metallic (EPA Method 3050)
- Total Cyanide (EPA Method 335.5)
- Cyanide (chlorination) (EPA Method 335.1)
- Fluoride (EPA Method 340.1)
- Sulfide (EPA Method 376.2)
- pH (EPA Method 150.1)

Chemical analyses of the composite sample indicated concentrations substantially below California Code of Regulations Title 22 STLC and TTLC standards, demonstrating that the lime pits are considered non-hazardous in the State of California. No parameter was found to exceed the state standards. Appendix B contains the Ralph Stone and Company report.

The United States Environmental Protection Agency (EPA) conducted a CERCLA Site Inspection at the Liquid Air Facility on February 17, 1989. The report dated June 1989 reviewed and analyzed hydrogeologic conditions and chemical analyses of soil and water samples from the Ralph Stone and Company report. The objective of this investigation was to determine whether the pits contained hazardous materials and is summarized as follows:

The EPA report stated that a previous hydrogeologic assessment was conducted in the vicinity of the site. The site is reported to be located on a surface exposure of the Bellflower Aquiclude. Soils with low hydraulic conductivity (10<sup>-6</sup> to 10<sup>-7</sup> cm/sec and less) were reported approximately 10 and 25 feet bgs in the vicinity of the site. The assessment also indicated that a confined aquifer exists beneath the site from 42 to 45 feet (bgs).

Waste management practices of the facility were also reviewed. Approximately 55 gallons of spent sulfuric acid, 55 gallons of TCE, 200 to 400 gallons of spent motor oil, and 1104 tons of dry lime were estimated to be generated by the Liquid Air facility per year. The spent sulfuric acid, TCE and motor oil are no longer generated at this facility. There is no documented evidence supporting a release of hazardous chemicals to groundwater, surface water, or air. It was determined by the State

Department of Health Services (DHS) that the lime pits at the site are non-hazardous and because of the lack of documented on-site hazardous waste, the EPA recommended no further action under CERCLA. Appendix C presents the EPA report.

In response to a request by the Los Angeles County Department of Health Services, chemical analyses of three soil samples and one water sample, collected from the lime pits by John L. Hunter & Associates on December 18, 1990, were performed by West Coast Analytical Services. The samples were analyzed for the following:

•	Two soil samples and one water sample	. Alkalinity (Method SM 403)
•	Two soil samples and one water sample	pH (EPA Method 150.1/9040)
•	One soil sample and one water sample	Volatile Organics (EPA Method 8260/624)
•	One soil sample and one water sample	Surrogate Percent Recoveries (EPA Method 8260/624)
•	Three soil samples and one water sample	C.A.M. (17) Metals

The chemical analyses of the samples indicated metal concentrations substantially below Title 22 STLC and TTLC standards. Volatile organic compounds (VOC) were also reported below state standards. Chemical analyses of pH in two soil samples and one water sample were reportedly 12.7, 12.8, and 12.9, respectively. However, it was later determined by West Coast Analytical Services and Liquid Air, that these pH test results and the other abovementioned tests done by West Coast, were invalid and could not be relied upon. Refer to Appendix D for the West Coast Analytical Services Laboratory reports, their January 10, 1991 letter to Liquid Air, and Liquid Air's February 8, 1991 letter to the City of Santa Fe Springs on this subject.

On August 26, 1991, two samples of the water discharged into the pits and two samples of lime (from outside the pits) were collected by a representative of the State DHS in an attempt to ascertain whether the pits contained hazardous materials. The soil samples were chemically analyzed for the following:

- Metals (EPA Method 6010)
- pH (EPA Methods 9040 and 9045)

The chemical analyses of the samples indicated metal concentrations substantially below Title 22 STLC and TTLC standards. Chemical analyses of pH in the samples were reportedly 12.3, 12.4, and 9.4 in two water and two lime samples, respectively. Title 22 defines corrosive material as having a pH value of 12.5 or greater. Appendix E presents these laboratory report.

#### 4.0 CONCEPTUAL CLOSURE PLAN

The two lime pits will be closed in accordance with appropriate state and local agency requirements. The conceptual closure plan is summarized below

- Backfilling the pits with off-site clean compacted imported soil. The fill will
  be capable of supporting a paved parking and drive area and a two-story
  structure in the future.
- Constructing a storm drainage system to collect and convey surface drainage into the plant storm drainage system.

Prior to implementation of the Conceptual Closure Plan, construction details will be submitted to state and local agencies under a separate cover. The elements of this conceptual plan are summarized below.

#### 4.1 Earthwork

1 2

The lime pits will be filled using clean soil obtained from either: 1) available excavated soil from potential new site construction, 2) and/or offsite imported backfill.

Fill will be added to the pit areas in accordance with California Department of Transportation construction specifications. Relative compaction of not less than 95 percent will be obtained for a minimum depth of 0.5-foot below the final graded elevation and future structural footings. Relative compaction of not less than 90 percent will be obtained for all remaining lifts. The compacted fill will be completed to within nine inches of the final graded elevation for the future placement of a reinforced concrete cap. The surface will be constructed to facilitate conveyance of storm water to desilting basins prior to drainage into the storm drainage piping. The perimeter of the closure area will be bermed to prevent run-on and run-off. The concrete parking area will be graded to minimize ponding or standing water on the closure area following rainfall events.

#### 4.2 Drainage

Drainage diversion features will be designed and constructed to limit ponding, infiltration, inundation, erosion, and slope failure. Surface drainage will flow to catch basins and into storm drain piping constructed in accordance with California Department of Transportation specifications.

#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

The metal concentrations detected in the soil and water samples in previous investigations are substantially below TTLC and STLC limits of Title 22 of the California Code of Regulations. VOC concentrations were also reported below Title 22 standards. Samples collected and tested for pH in June 1987 and August 1991 were found to be within an acceptable range for classification as non-hazardous material.

Based on a review of the chemical analyses data, the lithology underlying the lime pits, and the reported depth to groundwater, lime pits are not a threat to the environment. We recommend that detailed closure plans be developed to allow alternative land use for the area.

#### APPENDIX A

STABILITY ANALYSIS FOR OPEN PIT
8832 DICE ROAD
SANTA FE SPRINGS, CALIFORNIA
MAY 13, 1991
TRIAD GEOTECHNICAL CONSULTANTS, INC.

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STABILITY ANALYSIS FOR OPEN PIT

8832 DICE ROAD

SANTA FE SPRINGS, CALIFORNIA

JOB NUMBER 90-395 MAY 13, 1991



# TRIAD GEOTECHNICAL CONSULTANTS INC.

Soils Engineers and Geologists



# TRIAD GEOTECHNICAL CONSULTANTS INC.

Soils Engineering • Engineering Geology • Environmental Engineering

17231 EAST RAILROAD STREET, SUITE 100, CITY OF INDUSTRY, CA 91748
TELEPHONE (818) 964-2313
FAX (818) 810-0915

STABILITY ANALYSIS FOR OPEN PIT

8832 DICE ROAD

SANTA FE SPRINGS, CALIFORNIA

JOB NUMBER 90-395 MAY 13, 1991

#### REQUESTED BY:

Liquid Air 2121 N. California Boulevard P.O. Box 8038 Walnut Creek, CA 94596

Attention: Mr. Robert D. Predmore, Director



# TRIAD GEOTECHNICAL CONSULTANTS INC.

Soils Engineering • Engineering Geology • Environmental Engineering

17231 EAST RAILROAD STREET, SUITE 100, CITY OF INDUSTRY, CA 91748
TELEPHONE (818) 964-2313
FAX (818) 810-0915

May 13, 1991 Job #90-395

Liquid Air 2121 N. California Boulevard P.O. Box 8038 Walnut Creek, CA 94596

Attention: Mr. Robert D. Predmore, Director

Subject: Stability Analysis for Open Pit

8832 Dice Road Santa Fe Springs, California

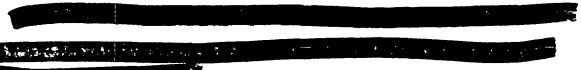
Reference: 1) Recommendations for Stabilization of Vertical Cuts

By Triad Foundation Engineering, Inc.

Dated August 1, 1990

Dear Mr. Predmore:

In accordance with the provisions of our proposal dated August 31, 1990 and our related conversations, we have completed a geotechnical investigation for the evaluation of the stability of the subject pit.



of the pit, remedial measures will be required. The details of our findings and recommendations are provided in the accompanying report.

We appreciate the opportunity to be of continued service. If you have any questions, please feel free to call this office at your convenience.

Respectfully submitted,

TRIAD GEOTECHNICAL CONSULTANTS, INC.

Javed S. Chak

JSC/thf

G.E. 197

Distribution: Addressee (4)





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#### INTRODUCTION

This report presents the results of a geotechnical investigation performed to assess the stability of an open pit and to provide mitigating measures if the pit is found to be unstable. This investigation was initiated upon the client's concerns regarding the stability of the pit and its impact on the site. The stability of the area was a special concern due to the presence of

### 1.1 Purpose & Authorization

1.0

This phase of stability analysis is the result of the earlier investigation, see reference 1. The earlier work consisted of field reconnaissance and visual observations and as a result of this investigation a more detailed investigation was recommended. The scope of this work was detailed in our proposal dated August 31, 1990 and is summarized below. This work was authorized by Mr. Robert Pedmore, director of technical services of Liquid Air.

#### 1.2 Scope of Services

The scope of work consisted of field investigation, laboratory testing and engineering analysis. Specifically, the scope of services included the following:

- (a) Drill 5 borings to the maximum depth of 20 feet.
- (b) Perform the site survey and produce topographic map with details of pit at the site.
- (c) Perform laboratory tests to determine the engineering properties of soils (strength, etc.) in the pit and its vicinity.

- (d) Perform stability analysis to evaluate the stability of the pit.
- (e) Prepare a report with findings and recommendations for the stabilization of the pit area.

#### 2.0 <u>SITE INVESTIGATION</u>

#### 2.1 Site Description

The site is located north of Los Nietos Road and west of Norwalk Boulevard on Dice Road in the City of Santa Fe Springs. The property is an industrial site with administrative offices. The entire site is fenced with chain link type fence. The pit is located on the northern end of the property. The east, west and south ends of the pit are being used by the plant facilities, and on the north end there are railroad tracks. On the northeast corner of the pit the railroad tracks fall within 6 to 7 feet of the pit. Several parked rail cars were noted in that area.

For the location of the pit in relation to the railroad tracks and the property fence, see the enclosed Plate A.

### 2.2 Proposed Project

This area under investigation consists of a large open pit. The attached Site Plan, Plate A, shows the limit of the pit. The pit is approximately 100 feet wide and 250 feet long and its sides are about 25 feet high and essentially vertical. This pit is being used as a lime processing area. Because of its use the inside walls of the pit are mostly coated with lime.

On the north end of the pit, approximately 7 feet from the top of the pit railroad tracks are located. These tracks are being used to transport heavy goods. Railroad cars are expected to impose heavy surcharge and possible vibrations in the pit area. In communications with the railroad industry it was established that maximum load per axle of the railroad car is 80 kips. Therefore, 80 kips of load were distributed to two wheels as surcharge to the pit area.

On the southern end of the property a ramp leads down from the property to the bottom of the pit.

#### 2.3 Field Investigation

Field investigation consisted of drilling five exploratory borings at the locations indicated on the Site Plan presented in the Appendix. These borings ranged from 11 to 21 feet in depth. A description of the methods used for the exploration is presented in the Appendix of this report.

#### 2.4 Laboratory Tests

To evaluate engineering properties of the on-site soils, several laboratory tests were performed on the soil samples obtained from the site. The type of tests and test results are provided in the Appendix of this report.

#### 2.5 Subsurface Conditions

The subsurface material at the bottom of the pit, in the upper strata, is fill which ranges 5 feet to 13 feet in depth. Fills are gray to grayish brown silty sands and sands. These soils are in a moist and medium dense to dense condition. An ammonia odor was noted in the fills. Underlying the fills are natural soils which consist of silty sands, sandy silts and clayey silts. More commonly fine and cohesive material was encountered in the lower strata. Natural soils are light gray and grayish brown sands and silts. These soils are slightly moist to moist, slightly porous, and are medium dense to dense.

At the ground surface level, the top of pit area, the natural soils were encountered at the ground surface. The soils in the upper 13 feet of stratum were classified as sandy silts. These soils are soft and porous in the upper 2 to 3 feet and below that they increasingly become firm to very firm. The lower strata are grayish brown sands which are dense. Ground water was not encountered in any of the borings to the depths of exploration.

### 3.0 ANALYSIS

#### 3.1 Fill Material

Fill material will be required at the site to buttress the existing open pit. As will be noted in the section of Stability Analysis, two types of fill may be required at the site. High quality of fill will be necessary in the eastern portion and

somewhat lower quality presenting lower cohesion for the rest of the area in the pit. The fills with higher cohesion will be identified as Fill 1 and other fill as Fill 2.

Fill 1 should be silty clays or clayey silts and when compacted to 90 percent of its maximum dry density, it should exhibit a minimum 500 pounds per square foot cohesion and 28 degree angle of internal friction. This soil should be free of debris or any deleterious material.

Fill 2 may be silty clays, clayey silts, sandy silts or sandy silty clays, all free of debris and deleterious material. This soil, when compacted to 90 percent of its maximum dry density, should exhibit a minimum 200 pounds per square foot cohesion and 30 degree angle of internal friction. Samples of these soils should be made available to our office for testing prior to their use at the site. All fills must be approved by the geotechnical engineer from our office.

#### 3.2 Stability Analysis

For stability analysis, the subsurface strata were idealized into three major layers, see Plate E. Layers 1 and 2 represent onsite natural soils above the base of the pit. Layer 3 is developed as a compacted fill layer. This fill will consist of selected import material. The import material may be classified into two categories. The fill to be used in the eastern portion

of the pit should provide a minimum cohesion of 500 psf and for the rest of the pit, the material with 200 psf is considered adequate.

The soil strength for each natural soil layer was evaluated in the laboratory. The test results are presented in the Appendix and the strength data is also summarized on the stability analyses sheets, see Plate E.

Stability analysis was performed for the pit, as is, using the representative soil strengths and using the Janbu method of analysis.



The sections used for analysis are presented in the Appendix.

Basically, two sections were considered representative for the entire pit. Section A'-A" presented on Plate G-1 is used for the eastern portion of the pit. This section includes the railroad car loads. Section B-B' represents the rest of the pit. In the eastern portion of the pit (Area 1), next to the railroad tracks, a buttress at 2.0 to 1 (horizontal to vertical) was used to stabilize the pit. Based on higher fill strength (C = 500 psf, presents).

A III

= 30 degrees) and 40 kips of surcharge load for each wheel of the car, the stability of the pit was evaluated. The results of the analysis are presented on Plate G-4. The results are based on two critical failure planes, one including one wheel load and the second two wheel loads.

The results show that the pit will be stable with a minimum factor of safety meeting the Code requirements. For the other areas of the pit the use of a 1.25 to 1 (horizontal to vertical) buttress fill will provide an adequate factor of safety for the pit. The results of the analysis are presented on Plate G-5 in the Appendix.

### 4.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

**F** 

An open pit which is the subject of this investigation is currently being used for lime processing.



Due to the processing of the lime, a 2 to 3 feet thick layer of lime was noted on the inside walls of the pit. Drilling at the selected locations showed that natural soils exist throughout

the site with the exception of the base of the pit where up to 13 feet of fills were encountered.



The fills

at the base of the pit are considered unsuitable for the stability of the pit, unless removed and recompacted.

# 

The import soil will be required for the construction of the buttress. The import soil consisting of Fill 1 and 2 should be silty clays, clayey silts, and silts and clays with some sands meeting the strength requirements as set forth in the sections above.

#### 4.3 Grading

All grading should conform to the requirements of the City of Santa Fe Springs and the standard grading specifications presented in this report.

Prior to grading, all structures, vegetation, and debris should be removed from the site. Uncertified fills and loose soils should be excavated to firm natural soils. Areas to receive fill should be scarified 6 to 8 inches to adjust the moisture content to near optimum conditions and then compacted to minimum requirements. Fills should be placed in 6 to 8 inch loose lifts at near optimum moisture conditions and compacted to not less than 90 percent of the maximum dry density. Maximum densities for the typical soils should be established in accordance with the standard ASTM D1557-78 method of test.

Selected fills for the site should be approved by the Engineer prior to acceptance at the site, to insure a similar quality to that required by design.

Grading operations should be conducted under the observation of the Soils Engineer to provide assurance of compliance with job specifications and a Certification of Compacted Fill upon completion of grading.

#### 4.3 Closure

1

This report was prepared to aid the project designers, reviewing agencies, grading contractors, owners, and other concerned parties in completing their responsibilities for the successful completion of this project. The findings and recomendations were prepared in accordance with generally accepted professional engineering principles and practices. We make no other warranty, neither expressed nor implied.

The findings and recommendations are based on results of the field and laboratory investigation, combined with interpolation of soil conditions between boring locations. If conditions are encountered during grading or construction that appear to be different than those reported, this office should be notified.

All footing excavations should be inspected and approved by the Soils Engineer prior to placing forms or reinforcement, to insure minimum depths into the recommended supporting material.

5.0 <u>APPENDIX</u>

The following Appendix contains a description of methods and laboratory test results which were used in the engineering evaluations and recommendations contained in the report.

### 5.1 <u>Site Exploration</u>

On February 5, 1991, field explorations were made by drilling five borings at the approximate locations indicated on the attached Plot Plan, Plate A. A truck-mounted, rotary-type drilling rig equipped with an 18-inch bucket auger was used to advance the borings to depths of 11 to 21 feet below the existing grade.

Relatively undisturbed samples of soils were obtained in the field using a barrel drive sampler with a tapered cutting shoe. The soil samples were retained in 2.5-inch diameter by 1.0-inch rings within the sampler and secured in moisture resistant bags as soon as taken to minimize the loss of field moisture while being transferred to our laboratory for testing.

Continuous observations of the materials encountered in the borings were recorded in the field. The soils were classified in the field by visual and textural examination, and these classifications were supplemented by obtaining bulk soil samples for future examination or testing in the laboratory to assure

classifications in accordance with the Unified Soil Classification System.

i.

Descriptions of the visual observations of color and soil condition, depth of undisturbed cores or bag samples, field density, and field moisture content are presented on the Boring Logs, Plates B.

### 5.2 <u>Laboratory Tests and Results</u>

Consolidation: Compressibility of the soils was determined by consolidation tests, which were conducted on selected undisturbed samples to represent the typical foundation supporting soils. The specimens were loaded initially at field moisture and later, at a specified load, water was added and allowed to remain until primary consolidation had been completed. The amount of settlement was recorded for each increment before applying additional loads and after completion of the loading, loads were removed and the rebound recorded. Consolidation curves obtained from test results are presented on Plates C.

Direct Shear Tests: Direct shear tests were conducted on undisturbed samples of the investigated soils to determine the angle of internal friction and cohesion. Samples were inundated for a minimum of 24 hours under normal load before testing and shear loads were applied quickly in accordance with the standard procedure for consolidated undrained shear tests. Horizontal

forces were applied to pass the peak shear and determine the residual shear strength of the soil specimen. The results and residual shear strengths under increased moisture conditions are shown on Plates D.

# BORING LOG

, ,	roje	c1	8832 D	<u>ice Road - Santa Fe Springs</u>					
i				Location see plot plan Job  Logged by JLK	No.90				
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	WATER	O DEPTH (FEET)	GRAPHIC LOG	UNIT (soil, fill, alluvium, siltstone, etc.)  MATERIAL DESCRIPTION (% sand, sitt, clay; color, ATTITUDE MEASUREMENTS:  B-Bedding F-Fault J-Joint RS-Rupture Surface C-Contact	GROUP SYMBOL U.S.C.S.	RESIST S/FOOT	C-CORE B- BAG	DRY DENSITY Ped 14 51	CONTENT (%)
				FILL: Gravelly Fine to Coarse SAND - gray- brown, moist, moderately dense, some asphalt debris No debris Black	SW (E	1/4" ounce	C/B 1)	94.2	9.9
		- 5 -		FILL: Silty Fine SAND - gray, moist, moderately dense to dense - has strong ammonia odor	SM -	4	C/B	107.0	19.6
		- 10 -		Dark gray-brown, less Silt, strong odor, trace of porosity	-	7	С	110.2	11.1
		- 15 -		NATURAL: Sandy SILT with a trace of Clay - light gray-brown, moist to very moist, very firm to stiff - no contamination No Clay	ML.	3	C/B	103.9	21.5
		- 20 -		SILT with Clay - red-brown, moist, very firm to stiff, slight trace of porosity		3	C 11	1.9	18.2
				END OF BORING 20.0 FEET No Ground Water or Caving					4
		- 25 -			-				-
		- 30-					DICE 0	1640	-

# BORING LOG

oject 8832 Dice Road - Santa Fe Springs

Borin	Boring No 2 Location see plot plan Job No. 90-395 Drill Date 2-5-91									
urfo	oce Ele	v		Logged by JL	<u>K</u>		Driv	ring We	ight_24	00#
WATER	RS-Rupture Surface			nd, silt, clay; color, consolidation, etc.)	GROUP SYMBOL U.S.C.S.		C-CORE B- BAG	DAY DENSITY pol	MOISTURE CONTENT (%)	
(3)				ME with Soil mix - li	ght gray &					
			SAND - cements FILL: Si	ndy GRAVEL/Gravelly F gray-brown, moist, d ed lty Fine SAND with Cl moist, dense, mild a	ense, well ay - gray-	6W/GW SM	10	С	111.4	18.6
	- 5 -			SAND with Silt - lig moist, moderately de		SP	5	С	113.0	16.8
;	- 10 -			LT - gray-brown, mois very firm, trace of		- ML	1	С	82.7	37.0
	- 15 -			END OF BORING 11.0		- -				1
				No Ground Water or	Caving	-			-	1
	- 20 -						,			4
	- 25 -					P - - -				-
	- 30-					2	DIG	E 016	41	1 1
	C 6 1			anaultanta Ina		-			PLATE	B-2

#### DUKING LUG

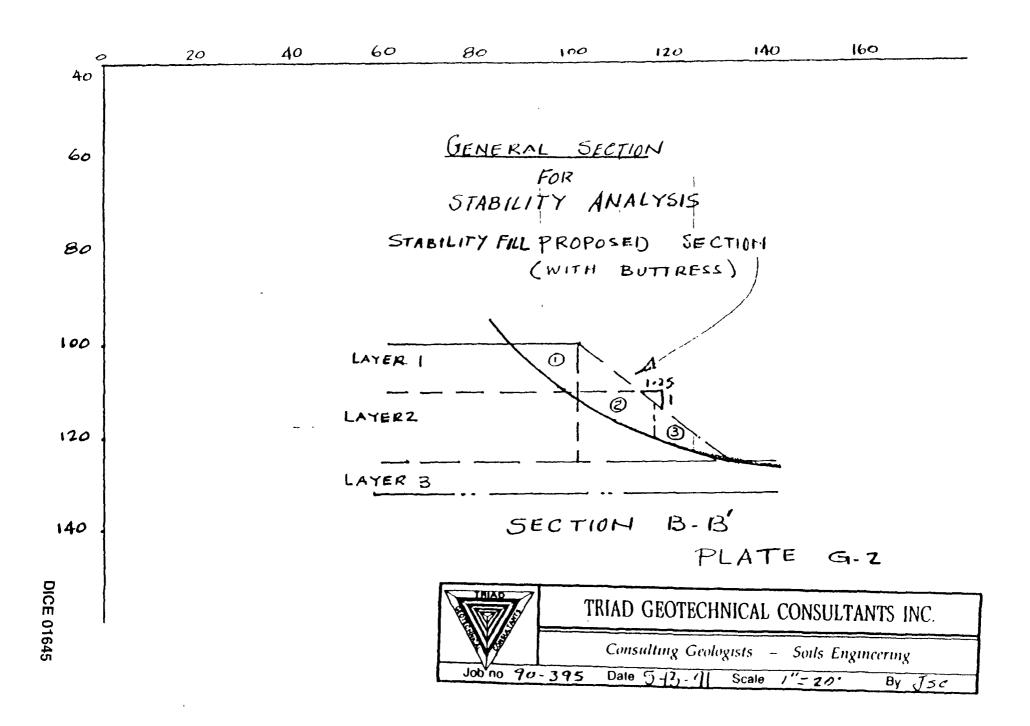
sject 8832 Dice Road - Santa Fe Springs Boring No 3 Location see plot plan Job No. 90-395 Drill Date 2-5-91 JLK Driving Weight 2400# rface Elev\_ Logged by\_ PENE. RESIST BLOWS/FOOT GROUP SYMBOL U.S.C.S. DENSITY Pcf سِلا 500 DEPTH (FEET) UNIT (soil, fill, alluvium, siltstone, etc.) MOISTURE CONTENT ( MATERIAL DESCRIPTION (% sond, silt, clay; color, C-CORE WATER GRAPHIC consolidation, etc.) ATTITUDE MEASUREMENTS: B- BAG B-Bedding F-Foult J - Joint RS-Rupture Surface C- Contact 0 LIME MATERIAL -light gray FILL: Sandy SILT - dark gray-brown, moist, C push 60.6 46.4 firm 6" FILL: Gravelly Fine to Coarse SAND - darkgray, moist, dense - well cemented Black - mod. ammonia odor, very moist 5 В FILL: Fine SAND - gray-brown, moist, SP 6 C 108.9 16.8 moderately dense to dense NATURAL: Sandy SILT - gray-brown, moist, ML \_verv firm to stiff\_\_ 10 Light gray-brown, very moist 89.5 32.3 2 С Trace of caliche 15 2 С 98.0 26.7 END OF BORING 16.0 FEET 20 No Ground Water or Caving 25 30 **DICE 01642** Contachnical Consultants Inc.

# BORING LOG

Project 8832 Dice Road - Santa Fe Springs Boring No 4 Location see plot plan Job No.90-395 Drill Date 2-5-91 Logged by JLK Driving Weight 2400# Surface Elev \_\_\_\_ SYMBOL. NESIST 18/FOOT **\_**2 200 DEPTH (FEET) UNIT (soil, fill, alluvium, siltstone, etc.) MOISTUR CONTENT MATERIAL DESCRIPTION (% sand, sitt, clay; color, C-COPE GRAPHIC consolidation, etc.) GROUP . 8-846 ATTITUDE MEASUREMENTS: B - Bedding F-Foult J-Joint RS-Rupture Surface C- Contact 0 LIME MATERIAL FILL: Fine to Coarse SAND - gray, moist, SW moderately dense to dense Some Gravel - dark gray, well cemented, dense, very moist to wet 5 FILL: Fine SAND - gray-brown, moist, dense SP 12 С 118.3 12.67 [ML NATURAL: Clayey SILT with many caliche nodules - gray-brown, moist, firm to Ю push 102.5 20.8 С very firm & tap Some Sand Some caliche nodules 15 . 2 С 99.2 25.8 END OF BORING 16.0 FEET **20** No Ground Water or Caving 25 **DICE 01643** 30

# BORING LOG

Project 8832 Dice Road - Santa Fe Springs Boring No 5 Location see plot plan Job No. 90-395 Drill Date 2-5-9 JLK Driving Weight 2400# Surface Elev \_\_ Logged by\_ RESIST 18/FOOT DEPTH (FEET) 500 UNIT (soil, fill, alluvium, siltstone, ptc.) MATERIAL DESCRIPTION (% sand, sitt, clay; color, C-COPE GRAPHIC consolidation, etc.) PENE. B- BAS ATTITUDE MEASUREMENTS: B-Bedding RS-Rupture Surface J-Joint C- Contact 0 SILT with Sand & Clay - brown, moist, firm, slightly porous 1 С 97.0 20. В 5 Moist to very moist, firm, trace of porosity push 91.7 22. & hold Sandy SILT - brown, moist, very firm Ю Red-brown, stiff C 114.5 14 Some Clay, trace of porosity Fine to Coarse SAND with gravel - gray-SW brown to light red-brown, moist, dense 15 5 С 112.7 13 Fine to Medium SAND with some Coarse Sand Gravelly Fine to Coarse SAND - light graybrown Strange odor - strong 50 10 C 118.1 END OF BORING 21.0 FEET 25 No Ground Water or Caving **DICE 01644** 30



# ROTATIONAL ANALYSIS USING JANBU'S DIMENSIONLESS PARAMETERS

(Harvard Soil Mechanics Series No. 46)

# SECTION

STABILITY OF EXISTING PIT

# SHEAR STRESS FARAMETERS

Unit Weight, Y = 120 lbs./cu. ft.

Cohesian, C = 200 lbs./sq. ft.

Angle of Internal Friction,  $\phi = 35$  degrees

Tangent q = 0.7

# **EALCULATIONS**

Height of Section = 24 feet

Slope of Section =0.67:1

 $\lambda c = \frac{\gamma H}{C} Tan = 10.0$ 

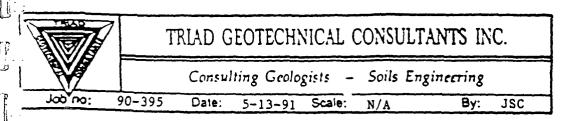
 $N_{cf}$  (from Janbu's curves) = 16

# FACTOR OF SAFETY

The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa

F.S. =  $N_{cf} \div \frac{\gamma H}{C}$ 





**DICE 01646** 

# STABILITY ANALYSIS

# SEE ATTACHED PLATE G-1

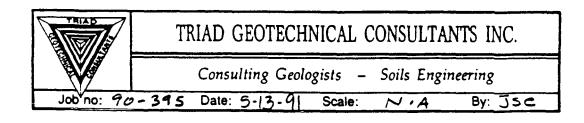
:	FAILURE PLANE	SLICE NO	AREA (F1) 2	WEIGHT (K)	C05	Ein	5~	F	CL	
	Ţ	1 2 3	60 300 35	40 + 7.2 36.4 4.2		-37	35 33.8 4.2	31·5 13·5	3·2 21·0 5·0	
	77	/ 2 3	176 470 35	56.4	L	- 26	76 · 8 54 · 0 4 · 2	64.6	5°5 21.5 5.5	

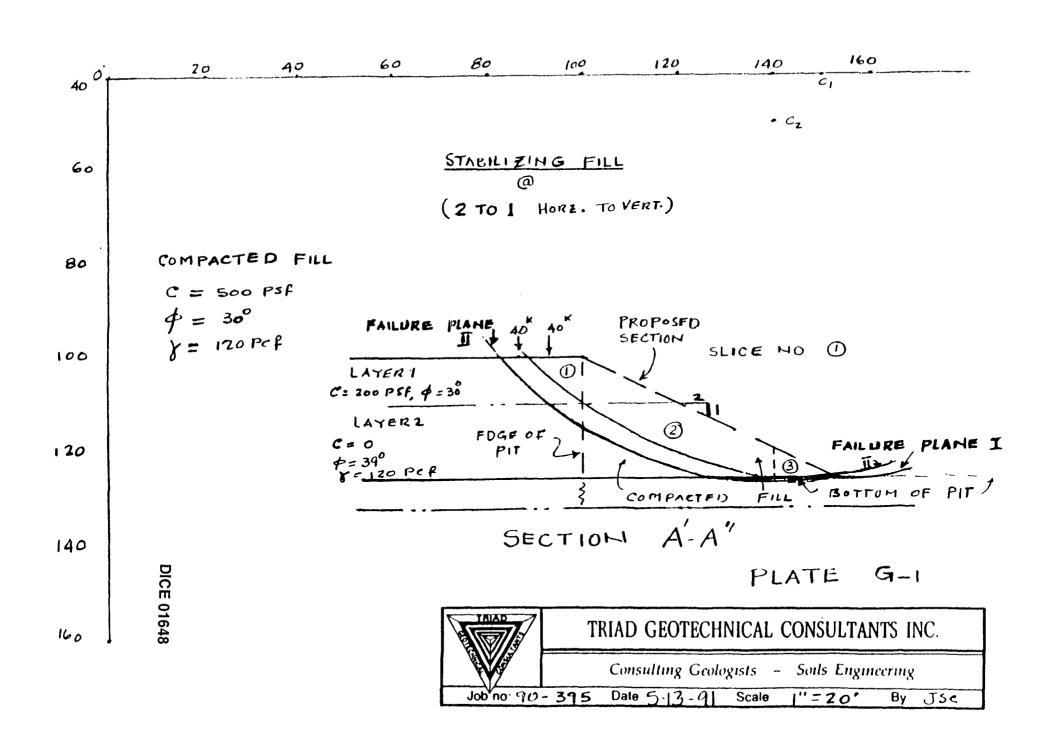
$$F.5._{I} = \frac{35 \times .7 + 38 \times .58 + 29.2}{45} = \frac{75.7}{45} - 1.68 \times 1.58$$

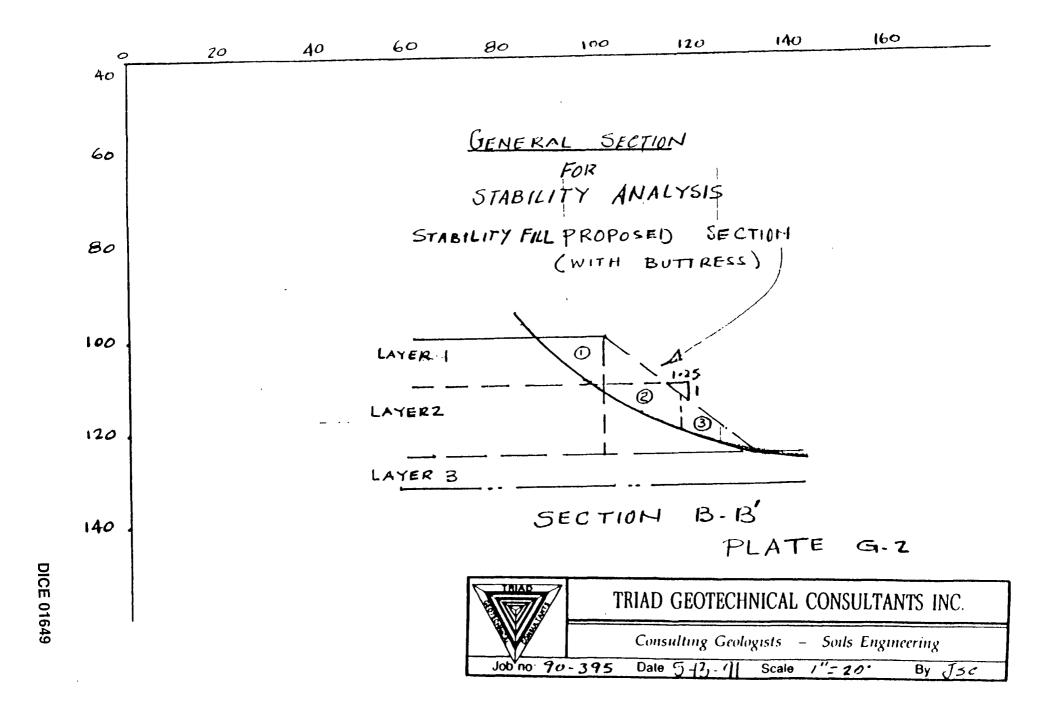
Fos. 
$$II = \frac{76.8 \times .7 + 58.2 \times .58 + 32.5}{79.2} = \frac{120}{79.2} = 1.52 \times 1.5$$

**DICE 01647** 

PLATE G-4







# ROTATIONAL ANALYSIS USING JANBU'S DIMENSIONLESS PARAMETERS

(Harvard Soil Mechanics Series No. 46)

# SECTION

STABILITY OF EXISTING PIT

# SHEAR STRESS PARAMETERS

Unit Weight, Y = 120 lbs./cu. ft.

Cohesian, C = 200 lbs./sq. ft.

Angle of Internal Friction,  $\phi = 35$  degrees

Tangent ¢ = 0.7

# CALCULATIONS

Height of Section # 24 feet

Slope of Section =0.67:1

 $\frac{\gamma H}{C}$ 

 $\lambda c \dot{\phi} = \frac{\gamma u}{C} T = 10.0$ 

 $N_{cf}$  (from Janbu's curves) = 16

# FACTOR OF SAFETY

F.S. =  $N_{cf} \div \frac{\gamma_H}{C}$ 





# TRIAD GEOTECHNICAL CONSULTANTS INC.

Consulting Geologists - Soils Engineering

90-395

2\_\_\_\_

Date: 5-

5-13-91

91 Scale:

N/A

By:

JSC

DICE 01650

# STABILITY ANALYSIS

# SEE ATTACHED PLATE G-1

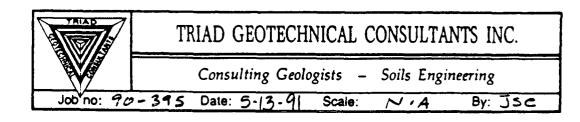
FAILURE PLANS		AREA (Fr) 2	WEIGHT (K)	Cos	E in	F~	Fr	CL	
I	1 23	60 300 35	40 + 7.2 36.4 4.2	i		35 33.8 4.2	31·5 13·5	3·2 21·0 5·0	
12)	/ 2 3	176 470 35	56.4	L	-26	76 · 8 54 · 0 4 · 2	64.6 14.6 0	5.5 21.5 5.5	

F.S. 
$$I = \frac{35 \times .7 + 38 \times .58 + 29.2}{45} = \frac{75.7}{45} - 1.68 \times 71.5$$

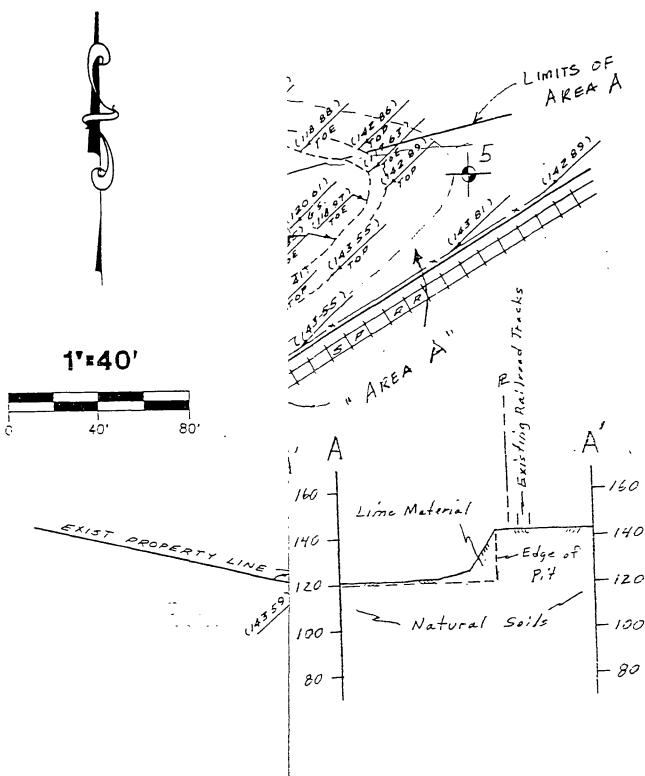
F. S. 
$$II = \frac{76.8 \times .7 + 58.2 \times .58 + 32.5}{79.2} = \frac{120}{79.2} = 1.52 \times 1.5$$

**DICE 01651** 

PLATE G-4



# PLAN



TRIAD GEOTE

Consulting C

Job no: 90-395 Date: 5-13-

PLATE A

**DICE 01652** 

1 LAYER 10 2 LAYER 20. 25. LAYER 3 PLATE ECHNICAL CONSULTANTS INC. Geologists – Soils Engineering By: JSC Scale:

**DICE 01653** 

# Kennedy/Jenks Consultants

## APPENDIX B

WASTE CLASSIFICATION FORM
SUBMISSION FOR
LIQUID AIR CORPORATION, SANTA FE
SPRINGS, CALIFORNIA
JUNE 24, 1987
RALPH STONE AND COMPANY

, \_ :

1

# WASTE CLASSIFICATION FORM SUBMISSION FOR LIQUID AIR CORPORATION, SANTA FE SPRINGS, CALIFORNIA

Submitted to:

California Reginal Water Quality Control Board

June 24, 1987

Prepared by:

Ralph Stone and Company 10954 Santa Monica Blvd. Los Angeles, CA 90025 213-478-1501



June 22, 1987 File No. 2142

California Regional Water Quality Control Board 107 South Broadway, Suite 4027 Los Angeles, California 90012-4596

ATTENTION: Ms. Mavis Kent

REFERENCE: Waste Classification Form Submission for Liquid Air Corporation

Santa Fe Springs, CA.

Dear Ms. Kent:

Please find enclosed a completed Waste Classification Form for Liquid Air Corporation, located at 8832 Dice Road, Santa Fe Springs, CA, 90670. This submission should satisfy all requirements of the Toxic Pits Cleanup Act (TPCA) of 1984.

Results of samples submitted to the laboratory indicate that the lime pits are non hazardous. No parameter was found to exceed state standards. Please review the enclosed data. If you have any questions, please call the undersigned or Richard Kahle.

Sincerely,

RALPH STONE AND COMPANY, INC.

Bruce Glasberg

Environmental Engineer

BG:gw Enc.

# CLASSIFICATION OF TWO LIME PITS AT LIQUID AIR CORPORATION SANTA FE SPRINGS, CA

Liquid Air Corporation obtains "carbide lime" as a by-product of the generation of acetylene from calcium carbide. Calcium carbide ( $CaC_2$ ) reacts with water ( $2H_2O$ ) to form acetylene ( $C_2H_2$ ) and carbide lime or calcium hydroxide ( $Ca(OH)_2$ ). The actual equation is:

$$CaC_2 + 2H_2O \longrightarrow C_2H_2 + Ca(OH)_2$$

Enclosed in Exhibit B is a pamphlet put out by the Compressed Gas Association describing carbide lime generation from acetylene generators.

There are currently two pits used by Liquid Air Corp. One pit receives hot, liquid carbide lime from the acetylene generator. Once this pit is full, it is allowed to cool and solidify. The second pit is then filled with the hot, liquid carbide lime from the acetylene generator. Figure 1 shows the effluent hose leading to the liquid pit (on the right). On the left side of Figure 1 is the dry pit. Figure 2 shows the dry pit being excavated. The excavated solid lime is re-liquified (Figure 3) and sold as construction material for road stabilization.

Since each pit is filled with fresh,hot,liquid lime, allowed to solidify, then excavated, a composite sample from one pit should represent both pits. There is no variation of the raw material being fed into the acetylene generator, therefore, there will be no variation of the chemical constituents in each of the lime pits.

Laboratory results indicate no hazardous constituents in the solid lime pit. All parameters tested for were below state standards. The pH was 11.9 in both the liquid and solid pits. While this value shows caustic corrosivity, it is below the 12.5 value deemed necessary for classification as a hazardous waste "corrosive".



Figure 1 Effluent hose from acetylene generator seen leading into liquid lime pit. On the right is the solid lime pit.



Figure 2 Excavation of solid lime pit.

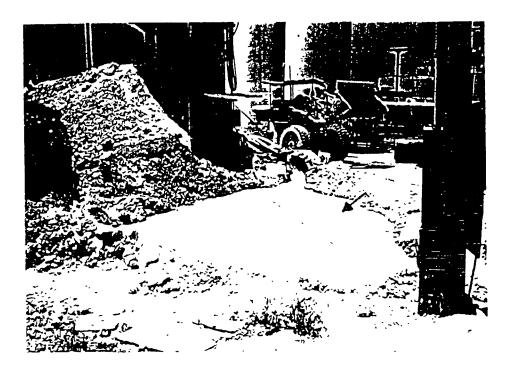


Figure 3 Arrow indicates re-liquidified lime which will be loaded onto a tank truck and used for road stabilization.

# DIASTE OF VSSILICATION FORM

- Name and Address of Waste Facility.
  - Mailing actions. LIGUID AIR CORP. INDVSTRIAL GASES DIVISION 9832 DICE ROAD SANTA FE SPRINGS, CA 90670
  - Location at which waste is generated, if different from above. ь.
  - Contact person and phone number. STEVE PEBLER, PLANT MGR . 213-945-1383
- Description of Waste: 2.
  - Physical description. HYDRATED LIME. SENI- SOLID :

  - Process used to generate waste. c.

ACETYLENE CENERATION, CALCIUM CARBIDE TO WATER PROCESS.

CaC<sub>2</sub> + 2H<sub>2</sub>O = C<sub>2</sub>H<sub>2</sub> + Ca(OH)<sub>2</sub>

Calcium Calid + wate = acetylene + calcium hydroxide

Present method of waste disposal. gas d. LIME IS STORED IN EARTHEN (DIKED) CONTAINHENT POND ON SITE, LIME IS SUBJEQUENTLY REMOVED FROM POND AND SOLD TO CUSTOMER.

- Sampling Information:
  - Name and address of company that sampled the waste.

Ralp Stone and Company, Inc., 10954 Santa Monica Blvd., Los Angeles, CA 90025; 213-478-1501

(rev: FO3 9/83)

## Sampling performed by Bruce Glasberg, Staff Engineer

## Dates are locations of collected samples;

Sampling performed on 6/4/87. Eight samples were taken from the solid pit, four samples taken from the liquid pit.

	months manaph		
TYPE OF SAMPLE COLLECTED	LOCATION	DATE COLLECTED	FELD SAMPLE NO.
Grab samples	solid lime pit	6/4/87	S1 thru S8
Grab samples	liquid lime pit	6/4/87	LI thru L4
	]   		
	t !		1
Exhibit 4 contains drawings	of both pits and s	ample locations	• .
	! !	-	
		l	•

# d. Description of sampling methocology:

- (!) Sampling technique at site or facility. In the solid pit, grab samples were taken with a clean spatula into clean glass jars. The spatula was cleaned after each sample with distilled water. In the liquid pit, a glass jar was attached to twenty feet of PVC pipe. Samples were scooped into the jar and poured into a cleaned glass jar. The jar attached to the PVC pipe was cleaned after each sample was collected. Collected samples were stored in an ice chest. Each sample was properly labelled. The caps were secured with electric tape.
- Samples handling and preservation prior to laboratory analysis.

  Samples were stored in an ice chest prior to delivery to the laboratory.

  As soon as the sampling operation was completed, prompt delivery to the testing laboratory was made. The laboratory was instructed to place the samples in refridgerators. Appropriate chain-of-custody documentation was used. See Exhibit 3 for copies of chain-of-custody documents.

- 4. Teting Laboratories Information: Calcium Carbide
  - a. Name and address of laboratories:

b. Test methods and references:

SPECIFIC TEST	METHOD.	REFERENCE
1. Organic Analysis CRGANIC PAR  - Chlorinated Pesticides	LAMETERS ABSENT FR	OM PROCESS REACTANTS PRODUCTS, SEE ITEM 2
- Polychlorinated Biphenyls	.N/A	
- Chloropheroxy Acid  Pesticides	M/A	
- Nitroaromatics	N/A	
- Organophosphorus Pesticides	M/A	
- Phenols	MA	
- Polynuclear Aromatic  Hydrocarbons	N/A	
- Priority Pollutants	~/A	
- Volatile Organics	~/A	
- Carbamates	N/A ·	
- Other (specify)	MIA	
2. Inorganic Analysis, Metallic		
- Antimony	EPA 3050	
- Arsenic	EPA 3050	
- Barium	EPA 3050	
- Beyllium	EPA 3050	
- Cadmium	EPA 3050	
- Chromium (VI)	EPA 3050	. <u> </u>
- Chromium (total)	EPA 3050	
- Cobalt	EPA 3050	

727	)	REFERENCE
marganic Analysis, Metalica (co	:nt.r_==:)	
- Copper	EPA 3050	
- Lezo, inorganio	EPA 3050	
- Lead, organic	EPA 3050	
- Mercury	EPA' 3050	···
- Melyodenum	EPA 3050	
- Nickel	EPA 3050	
- Selenium	EPA 3050	
- Süver	EPA 3050	
The William _	EPA3050	
- Yanadium	EPA 3050	
- Zimo	EPA 3050	
- Other (Specify)	EPA 3050	
. Incrganic Analysis, Non-Ma	tallic	
- Total cyanice	EPA 335.5	
- Cyanica (chlorination)	EPA 335.1	
- Fluoride	EPA 340.1	
- Sulfide	EPA 376.2	
- Asbestos	N/A ABJENT FROM F	ROCESS REACTAM
- pH .	. EPA 150.1	
- Free liquids	N/A - material dry	
- Other (specify)	<u> </u>	
4. Special Tests	•	-
- California Waste		
Extraction Test - Tests for Hazardous	Sec. 66700	
Properties		
- Aquatic 96 hr LC50	N/A	Not near water
- Flashpoint	N/A - no flammable const	ituents
- Corrosivity	N/A - testing for pH alr	eady
- Head Space	Sec. 66696(a)(10)	-
- Other (specify)		

<sup>\*</sup> If this is not a standard method (APHA-AWWA-WPCF, ASTM, AOAC, EF please attach a copy of method with this report.

c. Names and cualifications of sersons testing wasta.

All laboratory analysis performed by Brown and Caldwell Laboratories, 373 South Fair Oaks Avenue, Pasadena, CA 91105. The Dept. of Health Services Laboratory Certification for Brown and Caldwell is enclosed in Exhibit 1.

d. Preparation of laboratory samples from field samples.

EPA approved methods were utilized. Specific digestion method followed was EPA 3050 for metals analysis. Other preparation procedures are included in Methods listed on pages 3 and 4.

e. Sample identification information:

TYPE OF SAMPLE TESTED	FELD SAMPLE NO(S)	LABORATORY SAMPLE NO.	DATE TESTED
Grab Sample	S1 through S8	Same	6/5/87 - 6/19/87
Grab Sample	ab Sample L1 through L4		6/5/87 - 6/19/87
	1	1	
			1
			İ
•		<u> </u>	1

		وناستيه	. 7330.0.100 010.0011.01. (200.1000.)	S(C 1)
	a		On file with the DOHS Hazardous M	laterials Laboratory;
			yes X no	
	р	١.	Enclosed: yes no _X ;	
	C	: <b>.</b>	Will be forwarded to DOHS by	<u> </u>
6.	. i	_abor:	atory Results	
	2	-	Waste Components and California Wall).	aste Extraction Test Summary (Form
	t	٠.	Aquatic Bioassay. Use California Dep	partment of Fish Bioassay Data Sheet.
		· ·	Submission of Data and Reports (See	e Appendix 1).
7	- /	Acute	toxicity calculations from published	data: (Form 2)
3	. (	Corro	sivity, Flammability, Reactivity (Forn	n 3)
9.	. F	Refer	ences (Attach complete citations)	· ,
0.1	. (	Cerní	ication by person(s) who is the respo	nsible manager of the facility.
			"I certify under penalty of law examined and am familiar with the inthis notification and all attachments inquiry of those individuals immediatining the information, I believe true, accurate, and complete. I am significant penalties for submitting cluding the possibility of fine and in	nformation submitted in and that, based on my diately responsible for that the information is n aware that there are false information, in-
				•
۵.	gna tui	re		Date
218				
	inted	Nam	e	

# WASTE COMPONENT AND WASTE EXTRACTION TEST SUMMARY

Laboratory Sample # Composite S1-S8 Date Analyzed 6/5/87 - 6/19/87

Type of Sample Tasted Composite of grab samples from solids pit

# 1. Chemical Analyses and Extractions

Maste Component	Total Concentration	California Extraction Test
Componer	(mz/kg)	(ma/1)
prganic Analysis:		
Antimony	8	
Arsenic	0.6	
Bactum	13	•
ĉer vinum	0.09	
Casmium	0.5	
Caromium (iii)	1.0	
Chromium (YI)	4.5	
Cobalt	1	
Copper	2.9	
Fluorice	1	
Lead	5	l
Mercury	NA - not found	in raw material
Molypaenum	5	1
Nicke!	11	
Selentum	0.4	
Slver	NA - not in raw	malterial
Toellium	1 5_	
Yenedium	17	
Zinc	2	
	CHARETERY ADVENT FROM	RUFESS REACTIONS AND PRODUC
Chlorinated Pesticides	1 v/A	
Polychlorinated Biggenyls	1 ~/~	<u> </u>
Chlorophenoxy Acid		
Pesticides	A/در	
Nitroaromatics	7/4	<u> </u>
Organophosphorus	1	
Pesticides	NIA	
Pnenols ·	N/A	
Polynuclear Aromatic	1	
Hydrocarhons	1 MA	
Priority Pollutants	1 1/1	
Volatile Organics	1 NA	
Carpainates	1 MA	
Other (specify)	1 MIL	
pH	1 Not Applicate	
Sulfide		

SS-Ar LC 30 for Wests

EL Head Space Vegor Concentration

Component	ಸಿಲ್ಲಕ್ಕು Notecapt	Teight of component in syringe (mg)	Head space vapor concentration
	<u>}</u>		1.
	1		

$$(CA) = \frac{(OA) (R)}{(MW) (G)}$$

where (QA) = quantity of component in head space vapor (mg)

(MW) = molecular weight (mg/mmole)

(R) = 24.5 ml/mmole

$$(G) = 2 \times 10^{-6} M^3$$

(CA) = Head space vapor concentration (ppm)

Above calculations not necessary because no organic (volatile) constituents are present.

FORM 2

ACUTE TOXICITY CALCULATIONS (1,1)

WASTE	TOTAL CONCENTRATION	AVIERA LD <sub>50</sub> ORA	GE <sup>(a)</sup>	X A x = 10,000	LC <sub>50</sub> D	IGE <sup>(a)</sup>	_ <u>%</u> ^*_
COMPONENT*	PPM	(mg/kg)	(rel.)	LI)50 Ax Given	(mg/lg;)	(rel.)	L1) 50 1:
Arsenic	ó. 6	150	NIOSH-ave of LDLo	4 × 10 <sup>-7</sup>			
Barium	13	180	NIOSH for BaCl <sub>2</sub>	$7.2 \times 10^{-6}$			
Beryllium	0.09	0.496.	NIOSH-IVN LD50	$1.8 \times 10^{-5}$			
Chromium(t)	1.0	1870	NIOSH for CrCl <sub>3</sub>	5.3 × 10 <sup>-8</sup>			
Copper	2.9	140	NIOSH for CuCl <sub>2</sub>	2.0 × 10 <sup>-6</sup>			
Nickel	11	5	NIOSH-LDLo	2.2 × 10 <sup>-4</sup>			
Vanadium	17'	50 ,	NIOSH-SCU LD50	3.4 × 10 <sup>-5</sup>			
Zinc	2	350	NIOSH-for ZnCl <sub>2</sub>	$5.7 \times 10^{-7}$			
DICE 01668							
*Chemicals which ha below the detection cluded. Ave = average	i limit are not in- ; ;	SUM 2.8				4.70	
IVN = intravenous  gpg = guinea pig  SCU - subcutaneous  ipr = intraperitoneal		CALCULATED TOXICITY 357,142 mg/kg		ng/kg	TOXICII	Y	

# NOTE:

- (a) Average or most reliable values listed for individual compounds.
- NOTE:

  (a) Average or most reliable val.

  (b) Calculated LD<sub>50</sub> =  $\frac{100}{\text{Sum } \frac{\text{N} \text{ Ax}}{\text{LD}_{50}}}$

where LD<sub>50  $\Lambda x$ </sub> = LD<sub>50's</sub> of the pure toxic constituents  $\Lambda_1$ ,  $\Lambda_2$ ,  $\Lambda_3$ M  $\Delta x$  = concentration by weight in the waste (total ppm/10,000)

FORM 3

CORROSMITY, FLAMMABILITY, REACTIVITY OF WASTE

Parameter	Experimental data or @	Recenc
Corrosivity - pH * 0% dilution	11.9	see item 45
- corresion rate* (mm/vr)		see item 40
Flammability		
- Flesh coint + (°C)	<u> </u>	see item 4b
- Causes fire	<u> </u>	<u> </u>
- Flammable gas	<u> </u>	<u> </u>
- Flammable solid - Oxidizer	N   N	<del></del>
- Oxidize:	1 IV	<del> </del>
Reactivity		
- Unstable		
- Reacts with H_O	1 N	
- Forms potentially explosive mixture with H <sub>2</sub> O	N	
- Generates toxic gases with H_O	. N	
<ul> <li>Is a cyanide or sulfide</li> <li>between pH 2 and 12.5</li> <li>which generates toxic</li> <li>gases</li> </ul>	<10 mg/kg CN genera <1 mg/kg Sulfide gene ted	1
<ul> <li>Detonates or reacts at standard temperature, pressure</li> </ul>	N	
- Detonates if heated under confinement or with initiating source	N .	
- Forbidden or class B explosive	N	

# NOTES:

@ Fill in as follows:

•	Lat in	92 Tollow2:
	Code	Certification
	Y	yes
	И	no
	X	mot applicable

U Optional

\* Supply experimental data

# EXHIBIT 1

Brown and Caldwell Hazardous Waste Laboratory Certification

# STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES

# HAZARDOUS WASTE TESTING LABORATORY CERTIFICATE

is hereby granted to

BROWN AND CALDWELL LABORATORY

PASADENA to conduct analysis of hazardous waste in the following test categories:

Full Organic Chemical Analysis
Full Inorganic Chemical Analysis
Physical Property Testing
California Waste Extraction Test

This Certificate is granted in accordance with provisions of Article 8.5, Chapter 6.5, Division 20 of the Health and Safety Code.

Certificate No. 105

Expiration Date APRIL 3, 1988



Issued at Berkeley, on APRIL 4, 1986

Chief, Hazardous Materials Laboratory Section

**DICE 01672** 

# EXHIBIT 2

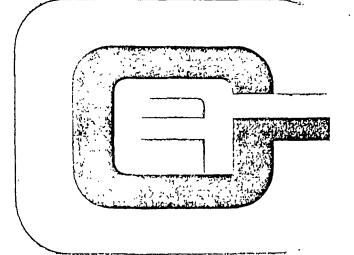
Comressed Gas Association

Pamphlet on Carbide Lime Generation, Its Value and Its Uses

# CARBIDE LIME ITS VALUE AND ITS USES

By-Product Calcium Hydrate from Acetylene Generation a Source of High Calcium Lime

COMPRESSED GAS ASSOCIATION, INC. NEW YORK, NEW YORK



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#### INTRODUCTION

Genesis of Carbide Lime

- The Calcium Carbide-Acetylene Process

Carbide time is a by-product obtained in the generation of acetylene from calcium carbide. It is variously referred to as carbide sludge, generator slurry, time sludge, time hydrate, and other such designations. Carbide time is better described as by-product calcium hydrate from acetylene generation, or simply, carbide time.

By-product calcium hydrate is found wherever acetylene is produced from calcium carbide. The calcium carbide employed for the generation of acetylene is manufactured by the reduction of high quality time by the carbon of selected cokes in the high temperatures of the carbide electric furnacing process Production of acetylene (C<sub>2</sub>H<sub>2</sub>) is accomplished by the reaction of calcium carbide with water (H<sub>2</sub>O) in properly designed acetylene generating equipment. In this process acetylene of the

highest purity is produced from the carbon (C) of the carbide and the hydrogen (H) of the water. The process also produces the subject carbide time or by-product calcium hydrate (Ca(OH)<sub>2</sub>), the latter obtaining its calcium from the carbide and its hydroxide radical from the oxygen and hydrogen of the water. The chemical equation for this reaction is

$$CaC_2 + 2H_2O \longrightarrow C_2H_2 + Ca(OH)_2$$

Carbide lime is a potential top grade hydrated lime because of the high quality of the original raw materials of the process, and because of the very nature of the electric furnacing and acetylene generation steps through which the lime must pass

By-product calcium hydrate from acetylene generation is a source of high calcium lime. Its economic and chemical usefulness is potentially comparable to that of commercial lime and hydrated lime in all fields of agriculture and farming, in building and construction, in industrial and chemical processes, and for numerous incidental purposes.

# PARTI TABLE OF POTENTIAL USES

Lime and hydrated lime find use in many processes. In many instances carbide lime, or by-product hydrated lime, may be employed. The following table is suggestive of potential use or application. More detailed treatment of these applications is given in the text that follows:

- 1		$\sim$	$\sim$	USES
	<b>⊶</b> I	11	1 1 H	110-

Farming Soil-Conditioning Insecticide Fungicide Disinfectant

Chemical Waste Treatment **Pharmaceuticals** Strychnine Quinine Organic Processes Lactic Acid Citric Acid Ethylene Oxide Ethylene Glycol Inorganic Processes Caustic Soda Calcium Salts Chlorinated-Hydrocarbons Trichloroethylene Perchloroethylene Bleaches

Building
Road Stabilization
Sand-Lime Bricks
Refractory Bricks
Lime Mortar
Lime Coment
Concrete Waterproofing

#### FIELDS OF USES

Paper Waste Treatment Sulphite Process Sulphate Process Soda Process Rag Stock Strawboard De-inking Bleaching

Ferrous Metals
Waste Treatment
Manganese Concentration
Wire Mill Cleaner
Casting Mold Liner
Ore Reduction

Non-Ferrous Metals Waste Treatment Magnesium Production Aluminum Production Cadmium Production Flotation Process Coating Cinder Pots

Petroleum Waste Treatment Emulsion Breaking Heavy Greases Catalytic Cracking Washing Gases

#### FIELDS OF USES

Textile Wool Degreasing Waste Treatment Bleaching Rayon Acid Waste

Soap Waste Treatment Calcium Stearate Glycerine Fatty Acids

Sewage Waste Treatment

Water Softening Lime Soda Process Lime Process

Plastics Waste Treatment

Coal & Coke Mine Waste Treatment Ammonia Recovery Gas Purification Ammonia Still

Paints
Water Paints
Whitewash
Varnish
Casein Paints
Linseed Oil

#### FIELDS OF USES

Meat
Waste Treatment

Canning Waste Treatment Citric Acid Recovery

Sugar Waste Treatment Cane Refinery Beet Refinery

Distilling Waste Treatment Tartrate Recovery Yeast Production

Tanning Waste Treatment Hide Soaking Glue Gelatine

Glass Sand Washing Lime Glass

Dairy Waste Treatment

# PART II CARBIDE LIME TECHNICAL DATA AND AVAILABILITY

Utility of Carbide Lime. One of the highest authorities on the subject of lime and its uses set forth the following observations on the subject, all of which has equal applicability to the utility of carbide lime.

"The great utility of lime has not been generally known, and the general impression prevails that lime is merely a cheap building material that may be used in a few technical processes. It would lead to important economic betterments if the scientific, industrial, and business world realized that of all the nation's raw materials and manufactured products, none is more richly endowed than is time with intrinsic merits and capacities for broad application to our industrial and farm life.

"Lime is much more than a building material. It is a chemical and a most versatile one. It is distinguished first of all by the large number of different functions that it will perform. In its construction uses, it performs at least number of different functions. In its chemical uses, the number is much larger, and there remain many others that may reasonably be expected to result from the systematic research and experimental work now being carried on in the matter of lime and its properties."

Solids Content and Drying. The generation of acetylene from calcium carbide, reacted with water in a "wet" generator, produces a slurry of calcium hydroxide (calcium hydrate). The usual solids concentration of the slurry from "wet generation" is from 10 to 12 per cent. It is possible to concentrate this slurry to about 30 or 40 per cent solids by decanting or by the use of a mechanical thickener and to between 45 to 55 per cent solids by prolonged pond settling. Commercial operations have demonstrated that the slurry can be concentrated satisfactorily through a range up to 60 per cent solids in a centrifuge. Experimental tests have indicated that drying of the 60 per cent solids material to a moisture content of from 1 to 3 per cent can be accomplished in a flash drier without excessive carbonate formation. Commercial operation has further demonstrated that 60 per cent solids hydrate can be calcined in a rotary kiln to produce a high quality calcium oxide of unusual reactivity, the product is inherently of extreme fine particle size and may be produced in either agglomerated or briquetted form

The generation of acetylene from calcium carbide, reacted with limited quantities of water, in a "dry" generator produces a commercially dry calcium hydroxide of extreme fineness, high chemical quality, and essentially free of foreign coarse impurities. Commercially, "dry" generator product is limited as to availability because the production of acetylene and carbide lime is predominately via the "wet" generation process

Dilute or concentrated sturry can be dried effect tively by mixing it with quicklime. The surplus water in the carbide lime sturry stakes the quicklime such that the per cent solids of the resultant mixture is appreciably increased even to the extent of achieving a commercially dry hydrate. This is accomplished in a process consisting essentially of a slurry tank with manually controlled dis charge, a quicklime feeder, and a mixing tank or hydrator. The quicklime hydration develops considerable heat which acts to vaporize some of the water and the volatile impurities of the carbide lime. The resultant hydrated time product is completely free from sulphide and objectionable odors and is amenable to further processing as to improvement or physical sizing, and hence is suitable for various end uses in the chemical, industrial, building, or agricultural fields

Typical Chemical Composition. The following is a typical chemical analysis of carbide lime as compared to commercial hydrate:

# CALCIUM HYDRATE ANALYSES (Dry Basis)

	Acetylene ( By-Produc	Generator t Hydrate					
	From	Frain	Sample	Sample			
	Generator	Pond	1	2			
Ca (OH) <sub>2</sub>	. 96 50	92 22	9G 44	92.40			
Available CaO	(73 00)	(69 80)	172 501	(69 90)			
C1CO3	. 1.25	282	1 76	3.80			
S <sub>1</sub> O <sub>2</sub>	110	1 46	0 81	1 30			
R2O3(A12O3, Fe2o3)	. 0 50	2 66	0 38	0 90			
Mg (OH) <sub>2</sub>	0.25	016	0 57	1 40			
s	015	0 17	0 03	0.10			
P		0 01	0 01	0 01			
Free Carbon	0 25	0 50	_	_			

Color, Odor, and Foreign Materials. It is to be recognized that carbide lime is a "by-product" as produced by the carbide-acetylene process, slight variations in chemical analysis and presence of alien matter will exist depending on local conditions at the point of production

The by-product hydrate has a grayish color and a characteristic acetylene odor as it comes from the generator, this odor passes away with time, but the grayish color results largely from the very small percentage of combined sulphur contained in the slurry. Also contained in the slurry are small amounts of ferrosilicon and carbon.

Particle Size and Magnesium Content. Carbide lime is extremely fine in particle size, comparable to and usually finer than most commercial hydrated limes. It has a number of advantages, such as

Ist Complete Hydration. That is freedom from unstaked time, because it is made in many times its own weight of water, while ordinary hydrated time is made with only a fraction of its own weight of water in order to avoid subsequent drying, which is inconvenient and expensive.

2nd: Fine State of Sub-division or Fineness In a published test of dried carbide lime, 99 9 per cent passed through a 300 mesh sieve, in another series of tests 92 to 98 per cent passed through a 325 mesh screen, while ordinary commercial hydrated lime does not show as good a percentage through a 200 mesh sieve. This extreme fineness is caused by the nature of its formation from calcium carbide. The acetylene on liberation has a tendency to crack or break open ordinary fine grains of lime into still finer particles. The heat and excess water in the generator also present ideal conditions for the production of very fine particles of hydrated lime. Conspicuous advantages of this fine state of sub-division are quicker and more efficient reactivity and the need for a smaller amount of carbide lime than is the case with ordinary hydrated lime. This finer sub-division is particularly valuable when carbide lime is used in the chemical, industrial, and construction fields of usage,

3rd: Low Magnesium Content: There is only a trace of magnesium present, because the lime originally used in making calcium carbide must be extremely low in magnesium. Low magnesium and high calcium are especially necessary in most chemical uses of lime, because the resulting magnesium products dissolve very readily in water, while calcium products are insoluble and can easily be removed by precipitation.

4th Price: Users of hydrated lime can in many instances effect a saving of one-third to one-half of their present expenditure for lime, by arranging to secure carbide lime from a nearby acetylene generating plant. A very high grade of by-product hydrated lime can be purchased at attractively lower prices.

Bulk Density vs. Per Cent Solids. Following are typical weight ratio and density data of carbide lime at various per cents of solids content based on a specific gravity of solids of 2 14.

Solids	Weight Ratio	
Content	Lb. Carbide Lime per	Density
%	lb. available CaO	Lb. per gal.
10		8 8
	7 3	93
~ -	4 8	9.9
40	3.6	10.6
50	2.9	11 4
60	2 4	12 3

Per Cent Solids vs. Available CaO. The available calcium oxide content of carbide lime is often the gage by which its value or usefulness is measured. By product calcium hydrate has a higher available calcium oxide content than many high grade commercial hydrated limes. Following are typical data relating per cent solids of carbide time per ton of available CaO.

Solids	Gal Carb									pide									
Content	ent Lime pe									ne per	Ton								
%															£	٧v	ก	ilable	CaO
10																		3,300	
20																		1,560	
30																		960	
40															 			670	
50									,						. ,			510	
60																		400	

Handling and Pumping. Pumping of carbide time has been demonstrated to be feasible in solids concentrations as high as 40 per cent. Carbide time with a solids content in the range of 50 to 60 per cent is amenable to digging and truck hauling. Tank truck or car haulage of the lesser solids content slurries has been demonstrated satisfactorily.

Handling and Transportation Water slurries of carbide lime, containing up to 40 per cent solids by weight, are fluid enough to be pumped satisfactorily with standard type centrifugal pumps. At about 50 per cent or more solids content, the concentration reached by prolonged storage in pits or ponds, the consistency of the carbide lime is that of a fairly firm putty which can be handled effectively by digging with power shovels. Carbide lime in the intermediate 40 to 50 per cent solids content semi-fluid state can either be fluidized for pumping by adding water or be further concentrated to a putty firm enough for shovelling by continued settling and decanting of supernatant clear water.

The consistency of carbide time can be readily altered to permit efficient handling. If the dilute slurry containing 10 to 12 per cent solids (which is obtained from wet type generators) is too dilute for economical shipment, or for intended end use, it can be thickened by settling and decanting or draining off the surplus water. Generator installations in industrial plants are commonly provided with subsurface settling pits or elevated tanks equipped with clear water decanting facilities to accomplish this thickening. In the case of settled carbide lime, addition of water and positive agitation is required to develop a slurry of uniform density. This agitation can be accomplished with a submerged jet of compressed air, steam or high pressure water applied through pipes or nozzles in fixed position, or by manual applica tion of portable equipment. Mechanical means such

manually operated hoes and power driven rotating paddles can also be used effectively

Carbide time, of the plastic putty-like consistency developed after prolonged settling in storage pits or ponds, is firm enough for clean handling by power operated shovels of the clam shell or dipper type, or by scrapers or scoops operated from drag lines. This material can be transported in hopper body trucks which are sufficiently water tight to prevent leakage to the roadway, by river barge, and by rail in hopper cars of the type used for transporting cement in bulk. Rail shipment in open hopper or gondola cars is also feasible if a temporary cover is provided to prevent loss by leakage of slurry which might be developed by exposure to rain or snow in transit.

Fresh generated slurry is most economically utilized closest to the point of production, reduction of inoisture content by one of several methods is progressively more essential economically, prior to hauling to points of usage, to reduce the gross volume per unit of solids

Fineness vs. Settling. In spite of the fineness of carbide lime particle size, the solids of a slurry are generally many times faster settling than the solids of a water-lime mixture made directly from burned lime. This difficulty may be overcome in most cases by utilizing a surge tank with agitator. If this latter method should prove inadequate under certain process conditions the difficulty may be overcome by grinding the wet slurry in a colloid mill. When so treated, it is known that the slurry can be held in tank storage for a week or more without appreciable settling, and in addition is less apt to clog valves or lines of a pumping system.

Processing of Carbide Lime for the Manufacture of Brick and Hydrated Lime. A prominent producer of gas products in Hawaii has reported successful utilization of the by-product carbide time of his carbide acetylene generation operations. This enterprising producer has equipped his operations with process equipment which enables him to recover approximately one ton of hydrated lime for each ton of calcium carbide consumed by the acetylene generator. With this equipment full utilization of the available by-product carbide lime is accomplished in two different ways; first and oldest, to supply lime for the manufacture of sand-lime brick; second in the manufacture of hydrated lime.

Sludge from the drain pit of the acetylene generator is pumped over a 1/8 in mesh screen to remove coarse particles and thence runs by gravity to the feed ring of a 15 ft. diameter by 8 ft. deep Dorr thickener. Here it is thickened from an original concentration of about 10 per cent solids to one of 40 per cent solids, the clear overflow going to waste.

For the manufacture of brick, the thickened slurry

is pumped to a 3 ft. by 4 ft. Oliver vacuum filter. The resulting cake contains about 55 per cent solids. The filtrate is returned to the Dorr thickener. It is usually clear, but sometimes an old cloth will develop holes and give a cloudy filtrate. A 1 1/2 in. Oliver diaphragm slurry pump is used to feed the filter. The thickened cake falls near the brick mixing pan and is shoveled into the pan as required.

For the manufacture of hydrated lime, thickened sludge not required for brick manufacture is pumped into a 232 cullt trailer tank and hauled to the lime plant Here it is pumped into a 9 ft diameter by 8 ft deep agitated storage tank. A Carter Humdinger plunger pump is used to empty the trailer and also to pump the sludge from storage to the hydrator slurry feed tank. Here it is mixed with water from the hydrator Schneible wet dust collecting system and fed to a Kuntz continuous hydrator. Here it is mixed in proper proportions with crushed quicklime from the lime kilns. The hydration or slaking reaction develops quite a lot of heat, so that it is necessary to supply about twice as much water as is theoretically required. The excess boils off and thus removes the extra heat and the vapor carries with it odorous impuriites in the sludge. Hydration temperature should be between 215 and 250 deg. F. for best results. Quicklime is fed by a star feeder and slurry feed is adjusted annually to get the proper operating temperature

The dry crude hydrate discharged from the hydrator is elevated and dumped into a surge bin. From here it is fed by an automatic load controller to a No. 1 Raymond swing hammer mill with double whizzer separator. The coarse impurities are discharged and conveyed by a vacuum pneumatic conveyor to a storage bin. This product is sold for agricultural lime. The purified hydrate, 99+ per cent through 200 mesh and about 70 per cent CaO, is separated from the mill air stream by a cyclone collector and a set of filter bags. These discharge into the finished lime storage bin. The product is bagged in 50 lb. bags as chemical hydrate lime by a 2-spout Bates packer, or is loaded into bulk shipping tanks for local customers.

While the sludge is rather low in sugar soluble lime, total CaO is quite high. Its use in quantities up to 10 per cent of the product, dry basis, does not seem to impair product quality. No sulphide can be detected in the finished lime, and it does not have any sludge odor, even when it is acidified and boiled.

Availability of Carbide Lune. Carbide lune, a top grade by-product calcium hydrate equivalent in many characteristics to top grade commercial hydrated lime, is available throughout industrial and farming areas — wherever calcium carbide is generated for production of acetylene. Classified sections of local telephone directories generally list producers or sales agents of "Acetylene" who would normally be in a position to advise where carbide lime would be available.

# EXHIBIT 3

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# Kennedy/Jenks Consultants

## APPPENDIX C

# CERCLA SITE INSPECTION 2 AUGUST 1989

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CERCLA SITE INSPECTION

SITE:

Burdett Oxygen Company of California (CKA Liquid Air

Corporation)

8832-8838 South Dice Road Santa Fe Springs, CA 90670

EPA ID #:

CAD 982359747

ASPIS #:

19-28-0224

**INVESTIGATORS:** 

Wendell Francisco

Hazardous Materials Specialist

Susan White

Hazardous Materials Specialist

Date of Inspection: February 17, 1989

Report Prepared By: Wendell Francisco

Report Date: June, 1989

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#### 1.0 INTRODUCTION:

The Burdett Oxygen Company (AKA Liquid Air Corporation) currently produces acetylene and repackages gases including carbon dioxide, hydrogen, helium, nitrogen, dinitrogen oxide, oxygen, propane and fuel gas for medicinal and industrial use. The facility has been in operation in Santa Fe Springs since 1946. Historical investigations of the site have revealed releases of waste products to the environment by facility operators. O wastes to unlined pits has occurred. On-site disposal of process Poor waste disposal and handling practices have also been noted. Waste parameters including pH as high as 12.4, possible high toxicity and persistence, and potential carcinogencity have been cited (1). The purpose of this to summarize previous investigations recommendations for further actions.

#### 2.0 SITE CHARACTERIZATION:

#### 2.1 SITE HISTORY AND DESCRIPTION:

Burdett Oxygen Company (BOC) is owned and operated by Liquid Air Corporation, 2121 N. California Blvd., Walnut Creek, CA (2). In 1957, the facility was called Burdett Oxygen of California. In 1962, the facility operated as California Oxygen Company, and by 1964 was known as the California Oxygen Division of American Cryogenics, Inc. (3,4). In 1971, the facility was known as the American Cryogenics Division of Liquid Air Inc. In 1980, the air separation plant was acquired by M.G. Burdett Gas Products Company. The entire facility is currently owned by the operator, Liquid Air Corporation (LAC) (1,2,5,6).

BOC is located at 8832-8838 Dice Road, Santa Fe Springs, CA in northeastern Los Angeles County (7) (Figure 1, Site Location Map: T2S,R11W, Section 31). The site is situated on level terrain on a panel of 4 1/2 to 5 acres. The facility has been in operation for approximately 31 years in a primarily industrial area of Santa Fe Springs.

The site configuration has changed considerably over the 31 years of operation. The present facility configuration (Figure 2) shows the facility structures and two unlined quarry pits. Structures on-site include: an administrative office, an industrial gas-cylinder fill building, a garage, an acetylene plant, a hydrogen gas plant and an air separation (Alpha gas) plant. The air separation plant and the hydrogen plant are located at the southwest end of the site. The administrative office and the industrial gas-cylinder fill building are located on the north end of the facility. The garage and acetylene plant are centrally located. The two unlined quarry pits are located on the east end of the site between two southern Pacific

Railroad spurs (2).

The site is located approximately I mile east of the San Gabriel Freeway. The facility is now completely paved except for the area surrounding the quarry pits. The site is enclosed by a fence with a security guard at the front gate. The Southern Pacific Railroad extends along the southern boundary of the facility.

From 1949 to 1955, periodic inspections by the Los Angeles County Department of the County Engineer (LACE), indicated that BOC was in compliance with the requirement of an industrial waste permit under Los Angeles County Ordinance 6130 (LAC Ord. 6130) (8). Waste sludge from acetylene production and coolant water were discharged under this permit to the unlined quarry pit or pits (8,9). In 1962, LACE inspectors observed an indirect waste trap that resulted in the deposit of caustic effluent into an earthen pit at the facility. The LACE inspectors ordered a direct connection of the effluent to the unlined quarry pit(s). A representative sample of the caustic effluent measured pH 12.4 (10). In 1963, it was discovered that liquid waste from cleaning and cooling tower basin was discharged into the unlined drainage channel, located south of the formerly standing cooling tower. No further actions were recommended by LACE. In 1949 and 1964, LACE inspectors discovered a violation of LAC Ordinance 6130, consisting of a caustic waste spill on the ground surface. A clean-up order was issued in 1964 (11). In 1964, LACE inspectors ordered company officials to discontinue unpermitted discharge of caustic wastes to the public sewer system (12).

In 1976, representatives of the California Regional Water Quality Control Board, Region 4 (RWQCB) reported illegal discharges of acetylene production wastes and cooling tower water to an unlined drainage channel known as North Fork Coyote Creek, for which clean-up orders were issued (13,14,15). Analysis of the process effluent revealed a measured pH of 12.2 and total dissolved solids concentrations (TDS) of 3,220 mg/l (1). As a result, in 1977, RWQCB ordered Liquid Air to comply with waste discharge requirements under Pollutant Discharge Elimination System (NPDES). National Effluent limits under the NPDES permit included pH 6.0-9.0 and maximum TDS of 700 mg/l (1). Later in the same year, the RWQCB documented excessive quantities of acetylene process wastes deposited in the drainage channel in violation of permit requirements (16). The NPDES permit was allowed to expire by RWQCB with the understanding that no further discharge of indicated wastes to surface waters would be conducted (17,18). In 1981, a facility drive-by conducted by DHS representatives confirmed the presence of acetylene (quarry) sludge ponds containing liquid wastes on site (19). In 1982, the facility was referred to DHS for consideration by the enforcement unit (19,20).

In 1986, it was revealed that a 6200 gallon underground acetone storage tank was leaking at a rate of 0.1566 gal/hr from the facility (21,22,23). The allowable leak rate is 0.05 gal/hour (24,25). A letter of noncompliance regarding the leaking acetone tank was issued by the Department of Public Works Waste Management Division Los Angeles County (25).

In February, 1988, it was revealed that ten or more piles of white to gray waste material were sitting on the unpaved ground surface along the southern border of the waste pit area. In March, 1988, a Santa Fe Fire Department inspection revealed the storage of twenty to thirty 55 gallon drums containing oil, paint, and other wastes near the waste pits (26,27). These drums were relocated to a properly paved storage area and segregated according to compatibility (2). As of July 21, 1989, DHS received a letter from Liquid Air Corporation stating that the 55 gallon drums containing oil, paint and other waste have been properly disposed of or recycled (28).

The facility is currently under permit as Alpha Gas by the South Coast Air Quality Management District (SCAQMD). The SCAQMD has no record of any enforcement action taken at the facility (29).

2.2 Process Description:

The company manufactures acetylene and repackages gases including carbon dioxide, hydrogen, nitrogen, dinitrogen, oxygen, propane and fuel gas for medicinal and industrial uses. The acetylene manufacturing process uses the reaction of calcium carbide stock with water to produce acetylene and slaked lime as shown below:

 $CaC_2 + 2H_2O --- Ca(OH)_2 + C_{2H_2}$  (gas)...typically with a variety of trace impurities (30,31).

The company excavated two pits, estimated at 500,000 cubic feet in volume, to accumulate sludge by-product, principally slaked lime (8,9). The gas repackaging process consists of vaporizing liquid gases, then repumping and compressing the gases into cylinders (2). Some liquid gases are repackaged and shipped as liquid product while others are vaporized and pumped into cylinders for transport as vaporized gas. There are no by-products produced from the vaporization process (2).

Cylinders containing the following gases are currently produced at the BOC site: oxygen, nitrogen, argon, helium, carbon dioxide, compressed air, acetylene, hydrogen, propane, and speciality gas-mixtures (2,32).

In 1946, the acetylene manufacturing plant was established. In 1957, an air separation plant for the production of oxygen was installed. In 1971, the acetylene plant was reconstructed due to its destruction

by fire in the previous year (33). In 1980, the air separation or liquid plant was closed and has remained inoperative to the present day (2,5).

In the Industrial Gas-Cylinder Fill building oxygen, nitrogen, argon, helium, carbon dioxide, compressed air and hydrogen are transferred from large (truck tankers) to smaller cylinders (2). In the Acetylene plant, acetylene, produced in a controlled reaction of calcium carbide and water, is stored under pressure in cylinders and the lime by-product is hauled away by sub contractors. One 55 gallon drum of sulfuric acid per year is used to clean the piping in the acetylene manufacturing plant. In the garage 200-400 gallons of oil per year is used for trucks and compressors. In the maintenance building, one 55 gallon drum of III trichloroethane per year is used for cleaning pipes on the oxygen tanks used by hospitals and also as a cleaning solvent for engine parts (2).

## 2.3. Waste Management Practices:

No waste products are produced in the Industrial Gas-Cylinder Fill plant, since the process is principally transferring gas from one container to another. In the Acetylene plant, slaked lime (Ca(OH)<sub>2</sub>) is produced as a liquid-sludge waste product. The lime is daily deposited in two large 500,000 cubic feet unlined slurry pits. Slaked lime is produced at BOC at a rate of 92 tons of dry lime per month. Approximately 55 gallons of spent liquid sulfuric acid is generated per year from the Acetylene plant. About 200-400 gallons of spent motor oil is generated per year from the company garage. Approximately 55 gallons of spent III Trichloroethane is generated per year from the maintenance building (2).

A tractor is used to transport lime sludge from the quarry pits to an adjacent milling machine. After the lime has been milled, it is hauled away by large trucks. Spent sulfuric acid, waste oil, and TCE are all stored in an enclosed, paved area in the former air separation plant located on the west side of the facility. Drums are grouped based on chemical characteristics. ENSCO Environmental Services of Irvine has been contracted to haul drummed waste products (2).

There are four above ground storage tanks located southeast of the plant office. Liquid argon, nitrogen and oxygen are separately stored in the three above ground storage tanks. All three tanks are sitting on the paved ground surface and have been in use since 1980. In the Industrial Gas Cylinder Filling area, water is constantly dripping over the valves of the cylinders being filled. This is a safety measure to assure that a spark that may produce a chain reaction of explosions does not occur (2).

In 1976, the RWQCB, Region 4 issued clean up orders for the illegal discharges of acetylene production wastes and cooling water to the North Fork Coyote Creek, an unlined drainage channel (13,14,15). Analysis of the process waste effluent revealed a measured pH of 12.2 and total dissolved solids concentration of 3,320 mg/l (1). Later in the same year, RWQCB documented excessive quantities of acetylene process waste deposited in the drainage channel in violation of permit requirements (16). BOC eventually allowed the National Pollutant Discharge Elimination System (NPDES) permit to expire and begin discharging acetylene process and cooling waters into two large onsite unlined pits (17,18,19). The lime pits are located on the east portion of the BOC site. The acetylene waste water is pumped from the Acetylene plant through a rubber hose out to the lime pits. The pits appear to be greater than 50 feet deep and there is an opaque-green liquid standing on the bottom of the two pits. A floor drainage system collects acetylene process run-off and pumps it out to the lime pits (2).

#### 2.4. Permit:

BOC is not listed in the RCRA data base. In 1977, the RWQCB ordered BOC to comply with waste discharge under the National Pollutant Discharge Elimination System (NPDES). Effluent limits under the NPDES permit included pH 6.0-9.0 and maximum TDS of 700 mg/l (1). In 1976, BOC was not in compliance with the NPDES permit. The NPDES permit was allowed to expire by the RWQCB with the understanding that there would be no further discharges of the indicated wastes to nearby surface waters (17,18). BOC no longer discharged to U.S. Waters, but instead directed effluent to the slurry pits at the east of the facility (19,20). Currently, BOC does not discharge process waste by-products to the sewer.

#### 2.5. Remedial Action:

BOC was ordered by the RWQCB to clean-up the North Fork Coyote Creek, an unlined drainage channel. There is an ongoing removal of lime sludge from the the acetylene slurry pits on-site. This lime is milled and hauled away to be used on roads and agricultural fields.

#### 3.0. Environmental Setting:

#### 3.1. Surrounding Area:

The BOC site is situated on the Santa Fe Springs Plain in the northeast portion of the Los Angeles Coastal Plain. The Santa Fe

Springs plain is a low, slightly rolling topographic feature that has been shaped by the Santa Fe Springs Coyote Hills anticlinal system. The plain dips moderately to the northeast toward Whittier and to the southwest towards the Downey Plain. Total elevation difference ranges from 175 to 200 feet above sea level (34).

The San Gabriel River Channel is located 1 mile west of the site and a percolation basin is located less than 3 miles northwest of the site. The Sorenson Avenue storm drain, located 1/4 mile northeast of the site, is tributary to Coyote Creek which is located approximately 3 miles southeast of the site (Figure 1).

The surrounding population of the City of Santa Fe Springs is 15,000. Distance to Southern California Chemical Company which has the nearest off site building is less than 500 feet west of the site. Witco Organics Company is less than 1,000 feet northwest of the site. An upaved lot is located less than 200 ft. southwest of the facility on the east side of the Dice Rd. (Figure 3). There are no sensitive environments within the site vicinity such as wetlands, nature preserves, or critical habitats.

One year, 24-hour rainfall for the area is 2 inches (Figure 4). Net seasonal precipitation is -.30 inches (35). Local streams are intermittent due to the seasonal nature of the climate.

#### 3.2. Geology:

The site is located on Upper Pleistocene alluvium of the Lakewood Formation. The Lakewood Formation unconformably overlies the Lower Pleistocene San Pedro Formation, the Pleistocene Pico, the Repette, and Miocene Puente formations (34). Underlying the site are the Lakewood and San Pedro formations which are fresh water bearing units containing Hollydale, Jefferson, Silverado, and Sunnyside Aquifers at increasing Lepth (1,34,36).

The site is located on the surface exposure of the Bellflower aquiclude, a low permeability layer of the Lakewood Formation. The aquitard, which is 15 - 20 feet thick, consists of gravelly clays, silts, silty clays, and sandy clays (34,37). The lower portion of the Lakewood Formation is the Gage Aquifer which is composed of fine to medium sands approximately 20 feet thick (Figure 5 and 6). Soil borings taken at a nearby facility (Southern California Chemical Company) indicate the base of the Gage Aquifer is located at a depth of 30 feet, however it is dry beneath the nearby site (34,37). The San Pedro Formation unconformably underlies the Lakewood Formation and its uppermost layer is an aquitard comprised of clayey silts and silty clays. It is 5 to 30 feet thick, according to nearby site boring logs, and separates the Gage from the Hollydale aquifer (38).

The Hollydale Aquifer is encountered at a depth of 60 feet below the site surface to approximately 100 feet (34,37). Regional groundwater flow is towards the south to southwest (36,37).

# 3.3. Hydrology:

## 3.3.1. Surface Water:

Drainage off of the site flows to the Sorenson Avenue storm drain, a concrete lined channel located I/4 mile northeast of the facility. The storm drain is tributary to Coyote Creek which is located 3 miles to the southeast. The San Gabriel River is located 1 mile to the west and the San Gabriel percolation basin is located further upstream. The Rio Hondo River and percolation basin are located approximately 3 miles northwest of the site (see Figure 1).

## 3.3.2. Groundwater:

The site is located on a surface exposure of the Bellflower Aquiclude, a low permeability portion of the Lakewood, Formation, a late pleistocene alluvial formation approximately 20-25 feet thick in the vicinity location (34,37). Boring logs for monitoring wells in the vicinity of the site reveal 10-15 foot thickness of the Bellflower Aquiclude which is comprised mainly of clays (37,38). The unsaturated zone is comprised of gravelly clay, silty clay and clay with a permeability or hydraulic conductivity of 10-5 to 10-7 cm/sec and less (37,38,39).

The Gage Aquifer is found 5-15 feet beneath the aquiclude and is 15-30 feet thick beneath the site and consists of sands and is comprised of clays and lies beneath the site surface at a depth of 30 to 60 feet (38). The Lynwood Aquifer lies beneath the San Pedro aquiclude and beneath the site at a depth of 200 feet and extends for 80 feet. The Silverado aquifer lies beneath the site at 300 feet and extends 200 feet in thickness. The Sunnyside aquifer is found at a depth of 560 feet below the surface at depth of approximately 850 feet. The Gage, Hollydale, Jefferson, and Lynwood aquifers are hydrologically interconnected within 3 miles of the site. The Silverado and Sunnyside aquifers are not hydrologically interconnected within a 3 mile radius of the site (Figure 6). General regional groundwater flow in the area is south to southwest (37).

Depth to groundwater in the Central Basin of the Los Angeles Plain occurs at 30 to 35 feet depth to the Gage Aquifer beneath the surface (37). Depth to groundwater beneath the site is approximately 42 feet (34).

A hydrogeologic assessment conducted in the vicinity of the site, indicated that a confined aquifer exists beneath the site at a depth from 42 to 45 feet. Low permeability soils were encountered 10 feet below the ground surface. A second low permeability zone was encountered approximately 25 feet below the surface (38,39,40).

The area is served by several water purveyors within a 1 mile radius of the site. The San Gabriel Valley Water Co., has 2 active wells at State well location 25/11W-18Q, Plant 1. The wells reach depths of 530 to 552 feet and are perforated at several depths in several of the local aquifers. These two active wells serve The Community of Whittier, California at a population of 17,000 people (41). The City of Norwalk Public Works operates one well within a 3 mile radius of the site and the population served is 7734. It is state well no. 3 s/11W-18M02 and is 1002 feet in total depth. well is perforated in the Jefferson and Lynwood aquifers (42). The City of Santa Fe Springs Water Department operates State well no, 25/11W-30RS that is located at the Santa Fe Springs Fire Station, 1180 feet north of the site. It is the nearest well to the site and is used for municipal supply (43). The well is 900 feet in depth and is perforated in the Lynwood, Silverado, and Sunnyside aguifers (42,43). The population served by municipal wells within a 1-mile radius of the site is 15,067 (41,42). There are over 50 wells within a 3-mile radius of the site (Figure 7).

Depth to the aquifer of concern for the site is 200 feet to the Lynwood Aquifer which extends 80 feet (Figure 6). Wells used for municipal supply located within a 1 mile radius of the site indicate perforations within these depths (41,42,43). The Gage Aquifer is dry within the vicinity of the site, however a perched groundwater condition was discovered at 42 feet beneath the site (31). Depth to aquifer of concern is 42 feet due to aquifer interconne

#### 4.0. SUMMARY OF INVESTIGATIVE EFFORTS:

#### 4.1. Previous Activities By Other Agencies/Responsible Party:

Sampling by DHS was not conducted by BOC. Ralph Stone and Company (RSC) on June 24, 1987 obtained samples for the waste classification of waste produced by Liquid Air Corporation. The RSC report was submitted to the RWQCB and was also to satisfy all requirements of the TOXIC PITS Clean-up Act (TPCA) of 1984 (44).

The objective of this sampling effort was to determine if the lime pits were hazardous or non hazardous. Based on the sampling protocol, laboratory test results, chain of custody documentation and sampling locations, the BOC site lime pits were found to be non hazardous (44).

## 4.1.1 Discussion and Evaluation of Previous Sampling/Testing Results:

Previous sampling has been performed at the facility by RSC, Inc. There are currently two pits used by Liquid Air Corp. Since each pit is filled with fresh, hot liquid lime, allowed to solidify, then excavated, a composite sample from one pit should represent both pits. There is no variation of raw material being fed into the acetylene generator, therefore there should be no variation of the chemical constituents in each of the lime pits. One lime pit contains liquid lime while the other pit contains solid lime. Eight samples were taken from the solid lime pit (S1 thru S8) and four samples were taken from the liquid lime pit (L1 thru L4) (Figure 8).

Figure 8: Dates and Locations of Collected Samples.

Type of Sample Collected	Sample Location	Date <u>Collected</u>	Field <u>Sample</u>
Grab samples	Solid lime pit	6/4/87	SI thru S8
Grab samples	Liquid lime pit	6/4/87	Ll thru L4

In the solid pit, grab samples were taken using clean equipment and samples jars. The equipment was cleaned after each sample with distilled water. In the liquid pit, a glass jar was attacted to twenty feet of PVC pipe. Samples were scooped into the jar and poured into a clean glass sample jar. The jar attached to the PVC pipe was cleaned after each sample was taken. Collected samples were stored in an ice chest. Each sample was properly labeled and the caps were secured with electrical tape. Upon completion of sampling, samples were promptly delivered to the testing laboratory in an ice chest sealed with chain of custody tape. The laboratory was instructed to place samples in a refrigerator (44).

Sample locations for each respective lime pit are available on figure 9 and 10. Results of analysis performed on samples are found in Table 1, 2, and 3.

Log No.	Sample Desc	ription, Sc	oil Samples	<u>Date Sa</u>	mpled
06-086-1 06-086-2 06-086-3 06-086-4 06-086-5	Comp. S(1-8 S1 S2 S3 S4	)		04 Jun 04 Jun 04 Jun 04 Jun 04 Jun	87 87 87
Parameter	06-086-1	06-086-2	06-086-3	06-086-4	06-086-5
Selenium, mg/kg Silver, mg/kg Thallium, mg/kg Vanidium, mg/kg Zinc, mg/kg Nitric Acid Digestion Date	<0.4 3.4 <5 27 2.0				
3	,, -	<del></del>	<del></del>	<del></del>	

TABLE 2

Report of Analytical Results for Solid Slurry Pit.

Log No.	Samp	<u>le Descrip</u> i	tion, Soil	Samples	Date Sampl	<u>ed</u>
06-086-1 06-086-2 06-086-3 06-086-4 06-086-5	Comp S1 S2 S3 S4	osite S(1-8	3)		04 Jun 87 04 Jun 87 04 Jun 87 04 Jun 87 04 Jun 87	
<u>Parameter</u>		06-086-1	<u> 96-086-2</u>	<u>06-086-3</u>	06-086-4	06-086-5
RCRA Reactivity Requirements						
Cyanide Generations/kg	on,	<10				
Reactivity with Acid/Base, mg/kg		NR				
Sulfide Generations/kg		<1		tale-sale-sale-sale-sale-sale-sale-sale-s		

<u>Parameter</u>	06-086-1	06-086-2	06-086-3	06-086-4	06-086-5
CN Amenable to chlorination					
Cyanide, Total,mg/kg CN amenable to	UTD			<del></del>	
chlorination,mg/kg	סדַט				
Hexavalent Chromium, mg/kg	<5		<del></del>		
Sulfide, mg/kg	43 11.9				
pH, Units Sample Held, Not Analyzed	11.9	<del></del>			
Fluoride, mg/kg	<1				<u> </u>
Antimony, mg/kg Arsenid, mg/kg	<8 0.6				
Barium, mg/kg	13				
Beryllium, mg/kg	0.09				
Cadmium, mg/kg Chromium, mg/kg	<0.5 1	<del></del>	<del></del>	<del></del>	
Cobalt, mg/kg	<1				
Copper, mg/kg	2.9				
Lead, mg/kg	<5				
Molybdenum, mg/kg Nickel	<5 11				
HICKET	4.4			<del></del>	

# TABLE 3

# Report of Analytical Results for Liquid Slurry Pit.

Log No.	Sample Desc	ription, Soi	<u>l Samples</u>	DATE	SAMPLED
06-086-1 06-086-2 06-086-3 06-086-4 06-086-5	Composite L L1 L2 L3 L4	(1-4)		04 J 04 J 04 J	un 87 un 87 un 87 un 87 un 87
<u>Parameter</u>	06-086-1	<u>06-086-2</u>	06-086-3	06-086-4	<u>06-086-5</u>
Hexavalent Chromium, mg/kg pH, Units Sample Held, Not Analyzed	11.9				

():

Further results for analysis performed on samples are found in Appendix D. Generally, no hazardous constituents were found during the analytical analysis of the sample from the BOC lime pits (44).

Soil sampling was performed by Bruce Glasberg, R.E.A. of Ralph Stone and Company, Inc. The samples were taken to Brown & Caldwell Laboratories for analysis. Results of samples submitted to the laboratory indicate that the lime pits are non hazardous. No parameter was found to exceed state standards (44).

## 4.2. DHS Site Inspection:

## 4.2.1. DHS Activities:

A CERCLA site inspection was conducted on February 17, 1989 for the purpose of gaining the most recent information regarding the site processes, waste management practices, and site layout and condition of acetylene sludge pits. The site investigation does not include sampling as previous sampling of the acetylene sludge pits has indicated that the pits are non-hazardous. For purposes of this site investigation-only a site reconnaissance visit was performed.

### 5.0. HRS FACTORS:

There is no documented evidence which supports an observed release to groundwater, surface water or air from Burdett Oxygen Corporation site.

#### Fire and Explosion:

It has been documented that in 1971, the acetylene plant was reconstructed due to its destruction by fire in the previous year (33).

#### Direct Contact:

There is no record of direct contact or exposure with the public. The facility is well secured, fenced and guarded.

#### <u>Waste Type:</u>

Yearly wastes generated on-site consist of 55 gallons of spent sulfuric acid, 55 gallons of TCE, 200-400 gallons of spent motor oil and 1104 tons of dry lime (2). Waste sulfuric acid, oil, and TCE are all stored in an enclosed, paved area in the former air

separation plant to the west of the facility. Drums are grouped based on chemical characteristics. ENSCO Environmental Services of Irvine has been contracted to haul away drums (2). The slaked lime (calcium hydroxide) is deposited in two lime pits (125 ft. x 80 ft. x 50 ft. deep and 125 ft. x 80 ft. x 50 ft. deep) (44).

Sulfuric acid is a colorless, oily liquid which is extremely irritating, corrosive and toxic to tissue. TCE is an organic solvent about that decomposes and emits toxic fumes of C1- when heated. Slake lime or sodium hydroxide consists of colorless crystals can cause dermatitis and irritation to eyes and mucus membranes upon contact for sodium hyphoxide dust (45).

Waste Quantity: a new non-zerod containment score. Drylime does not count since it is non Nazandons. TCE, sulfuric acid probabilly don't Yearly, 55 gallons of sulfuric acid and TCE are generated by the facility. 200-400 gallons of spent oil and 1104 tons of dry lime is generated by ROC on a yearly basis (2) generated by BOC on a yearly basis (2).

count since they are stored in infact draws.

#### <u>Groundwater:</u>

Soil boring logs from monitoring wells drilled in the vicinity of BOC show a depth to water of about 42 to 45 feet and indicate that the Gage Aquifer is dry in the vicinity of the site (38). Screened intervals for other monitoring wells in the area are approximately 45 to 75 feet below the surface. The aquifer of concern for the site vicinity is the Lynwood Aquifer, found at a depth of 200 feet beneath the ground surface (38). Several municipal wells located within a 1 mile radius of the site are perforated in this aquifer (41,42,43):

The City of Santa Fe Springs Water Department operates State well no, 25/11W-30RS that is located at the Santa Fe Springs Fire Station, 1180 feet north of the site. It is the nearest well to the site and is used for municipal supply (43). The well is 900 feet in depth and is perforated in the Lynwood, Silverado, and Sunnyside aquifers (42,43). The population served by municipal wells within a 1-mile radius of the site is 15,067 (41,42). There are over 50 wells within a 3-mile radius of the site (Figure 9).

#### Surface Water:

Surface water bodies located within a 3 mile radius of the site are not used for municipal, irrigation, or recreational uses. The San Gabriel River, located 1 mile west of the facility is a flood control channel. Drainage off site flows to the Sorenson Avenue Drain, located 1/4 mile northeast of the site. Facility slope is nearby level and it does not appear that surface runoff from the site would affect surface water bodies except via the Sorenson Avenue storm drain.

## 6.0. RECOMMENDATIONS AND CONCLUSIONS:

Burdett Oxygen Company CKA Liquid Air Corporation located at 8838 Dice road, Santa Fe Springs, CA has operated an acetylene manufacturing plant, and a repackaging of industrial and medicinal gas operation using such gases as CO<sub>2</sub>, H<sub>2</sub>, He, N<sub>2</sub>, N<sub>2</sub>O, O<sub>2</sub>, propane, and fuel gas. The BOC site has been in operation since 1957.

Samples were taken from the two slurry pits at the site to determine whether hazardous substances were being stored in them. Ralph Stone and Company, Inc. conducted the sampling effort which revealed that the slurry pits at the BOC were non-hazardous.

It is therefore unlikely that this site will be eligible to be listed on the NPL due to a lack of documented on-site hazardous waste.

EPA: No further Remedial Action Planned Under CERCLA based on a low potential to quality for the NPL.

DHS: No further Remedial Action recommended for the state since waste constituents in the facility sludge ponds are considered non-hazardous.

CATA

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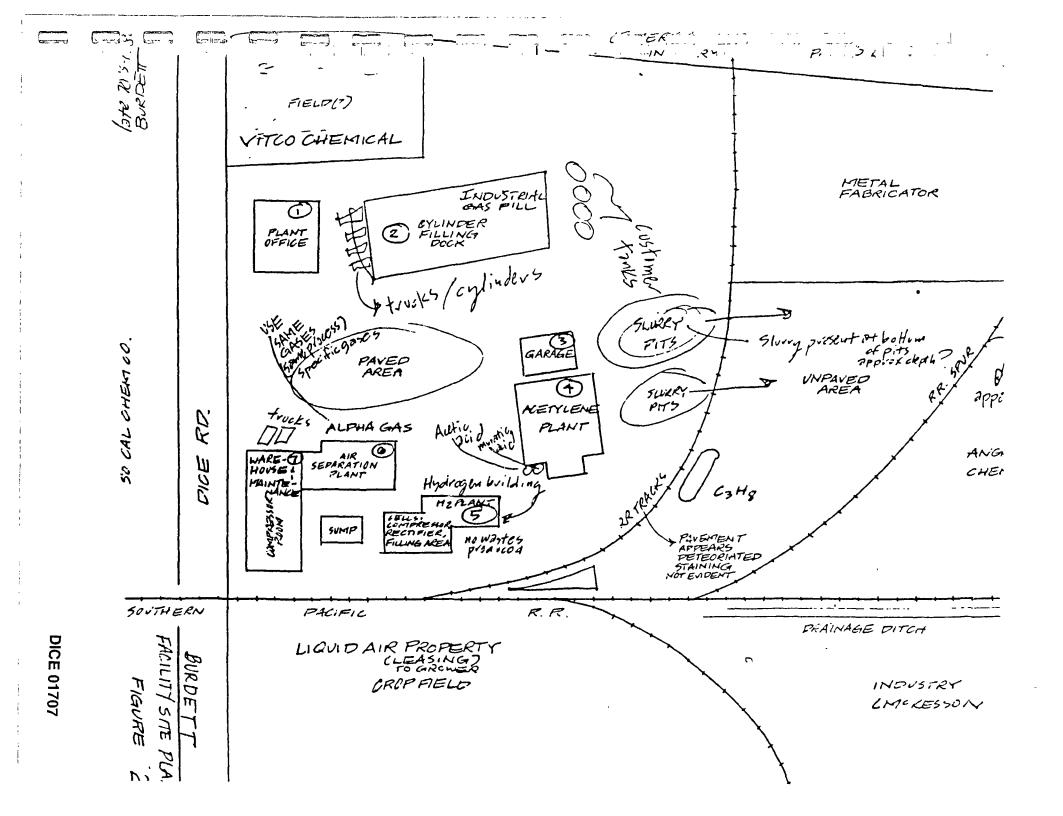
FIGURES

SITE LOCATION MAP WHITTIER, CALIF N3352 5-W11800/7.5 1965 PHOTOREVISED 1981 DMA 2351 I NE-BERIES VB91 CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 3-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

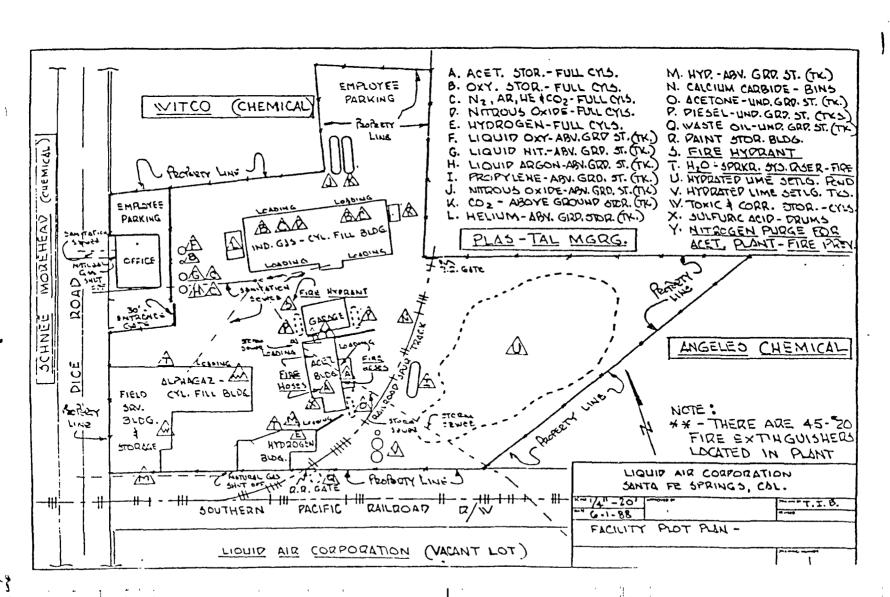
LIQUID AIR CORPORATION
LBURDETTOXYGEN7
8832-8838 DICE RD.
SANTA FE SPRINGS, CA 90670

**DICE 01706** 

FIGURE I

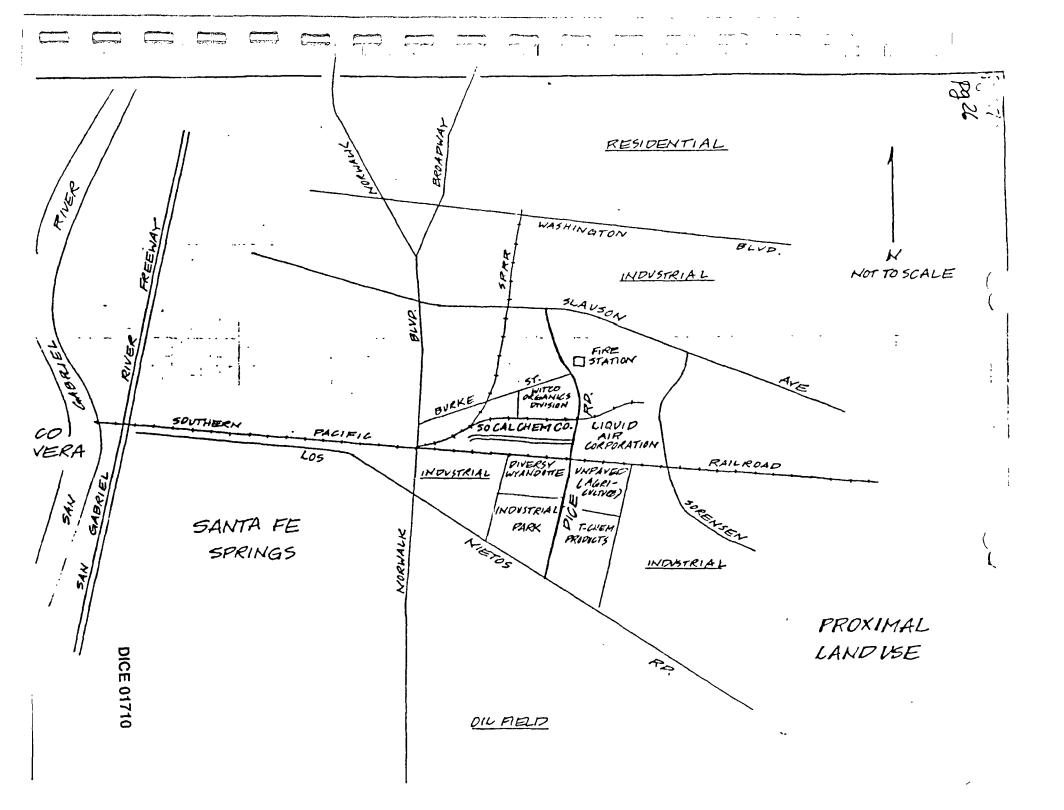


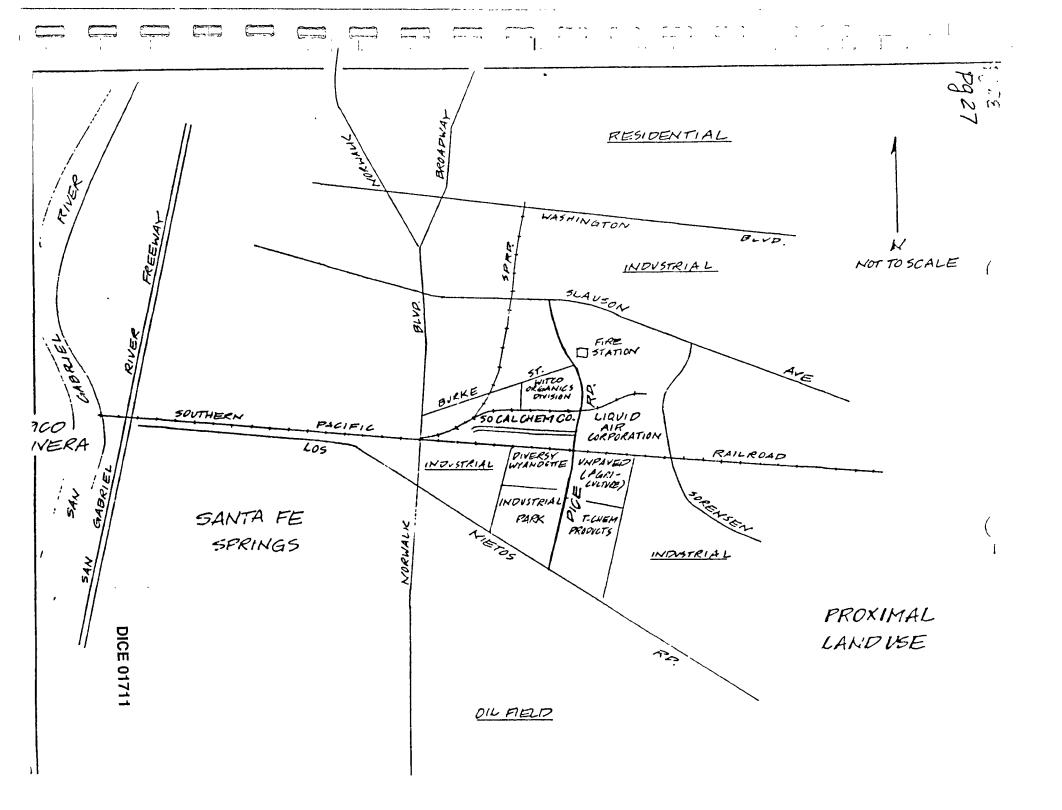
**DICE 01708** 

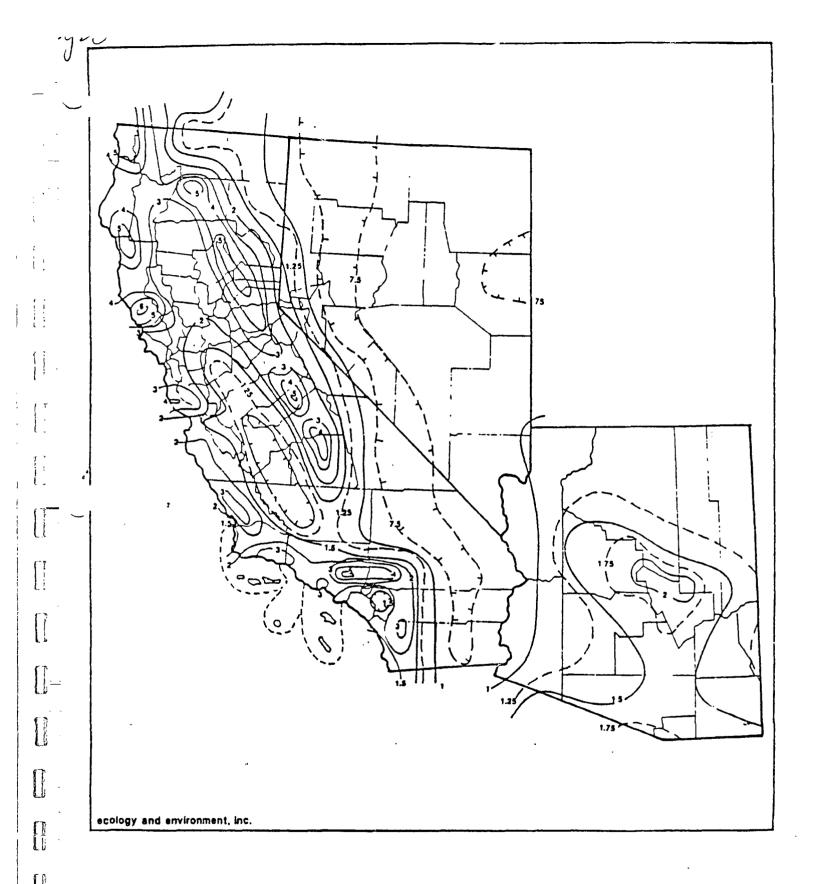


# ATTACHMENT 1 SITE TRACKING SHEET

Site Naws:	Burdett Ox	ygen Company	4 California
site Location:	883z -88	38 Fouth Die	le Road
		= Springa, C	
ASPIS Facility Fi		19-28-0224	
Site Screening		PA	s: <u>X</u>
	SEE SITE		ATION
•		•	
•			
		·····	
•			
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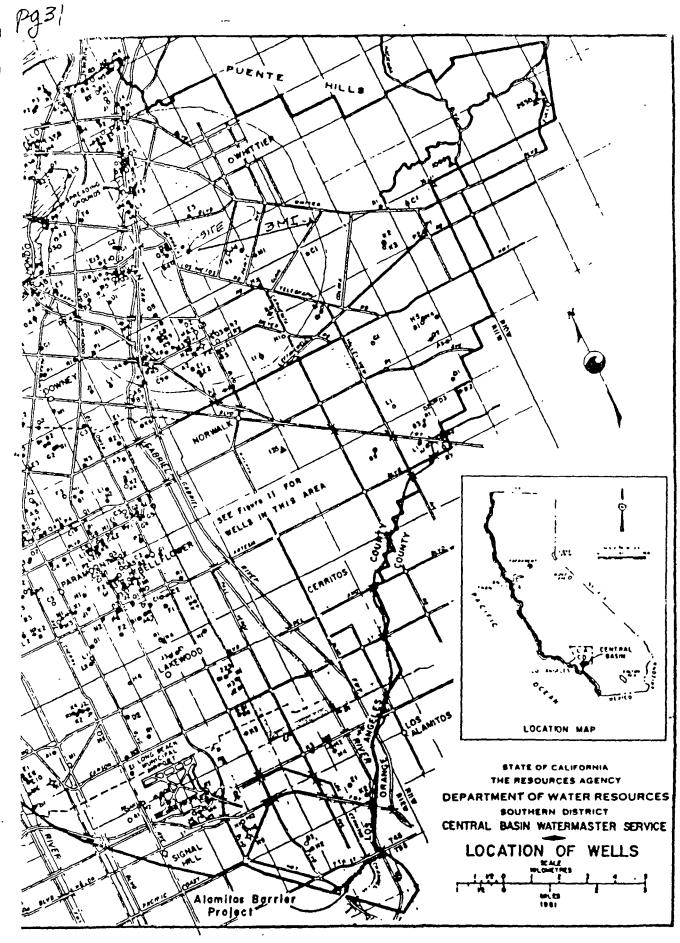
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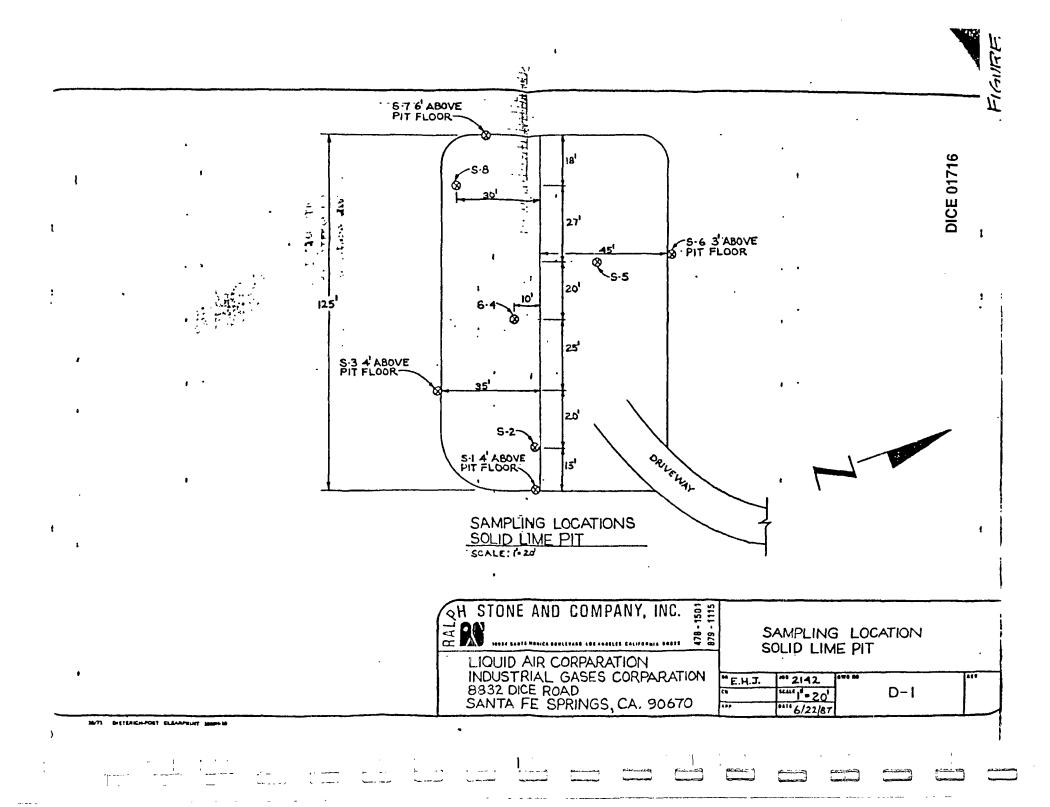
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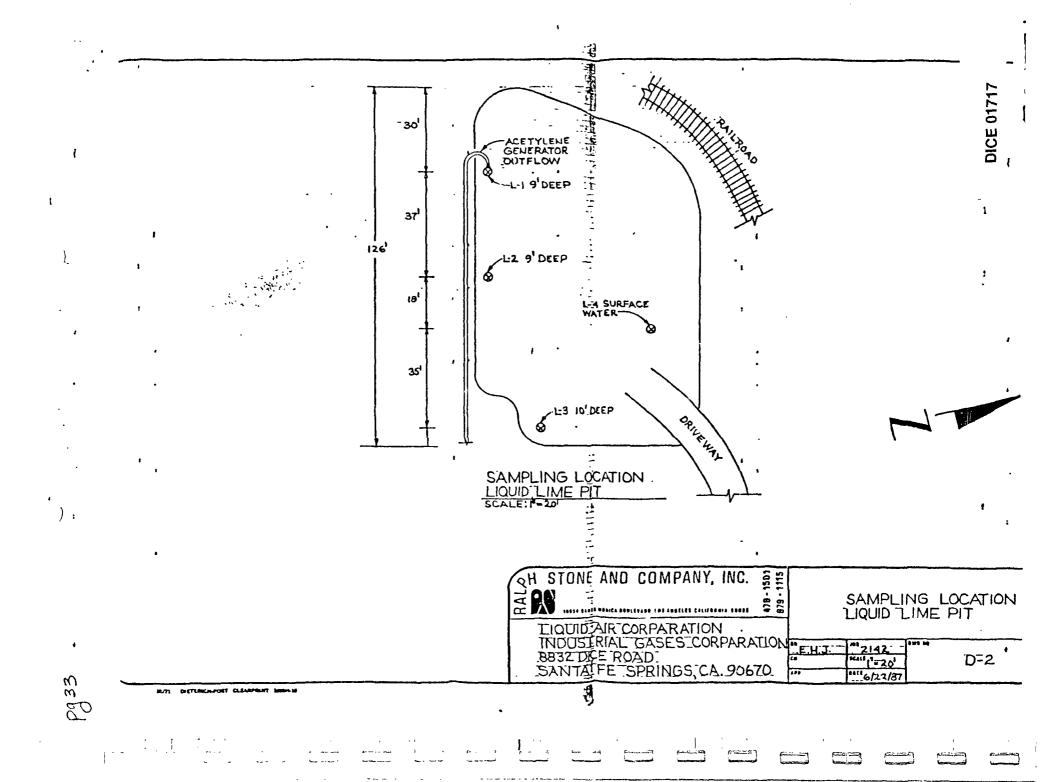
GENERALIZED STRATIGRAPHIC COLUMN COASTAL PLAIN OF LOS ANGELES COUNTY

MARKEL D. STAGE SCHOOLSELL

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# APPENDIX B CONTACT LOG AND REPORTS

# AGENCY CONTACT RECORD

AGENCY	CONTACT	DATE	RESPONSE
California Regional Water Quality Control Board. 107 S. Broadway, #4027 LA, CA 90012-4596	Jennifer Schroll (213) 620-4461	3/21/89	Come review file on Burdett Oxygen Company AKA Liquid Air Corporation.

# APPENDIX C PHOTO DOCUMENTATION

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#### Kennedy/Jenks Consultants

#### APPENDIX D

JOHN L. HUNTER & ASSOCIATES
LABORATORY REPORT
31 DECEMBER 1990

December 31, 1990

JOHN L. HUNTER & ASSOCIATES 13310 Pirestone Blvd., Suite A-2 Santa Fe Springs, CA 90670

Attn:

John L. Hunter

JOB NO. 17412



ANALYTICAL CHEMISTS

#### LABORATORY REPORT

Samples Received: Three (3) soil samples and one (1) water

Date Received: 12-18-90

Date Released for Analysis: 12-19-90

Purchase Order No: Project Name: Santa Fe Springs

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Two (2) soils and one (1) water	Alkalinity by SM 403	Tables 1 & 2
Two (2) soils and one (1) water	pH by EPA 150.1/9040	Table 3
One (1) soil and one (1) water	Volatile Organics by EPA 8260/624	Data Sheets
One (1) soil and one (1) water	Surrogate Percent Recoveries for EPA 8260/624	Data Sheets
Three (3) soils and one (1) water	CAM (17) Metals by ICPMS1	Data Sheets

Page 1 of 2

B. Michael Hovanec Senior Staff Chemist D. J. Northington, Ph.D. President



#### WEST COAST ANALYTICAL SERVICE, INC.

JOHN L. HUNTER & ASSOCIATES Mr. John L. Hunter

Job # 17412 December 31, 1990

#### LABORATORY REPORT

#### TABLE 1

#### Parts Per Million (mg/Kg)

Total Alkalinity by SM 403

1A 510000 2A 320000 Detection Limit 1000

Date Analyzed: 12-27-90

Sample ID

#### TABLE 2

#### Parts Per Million (mg/L)

Sample ID Total Alkalinity by SM 403

W-A 300000 Detection Limit 10000

Date Analyzed: 12-27-90

#### TABLE 3

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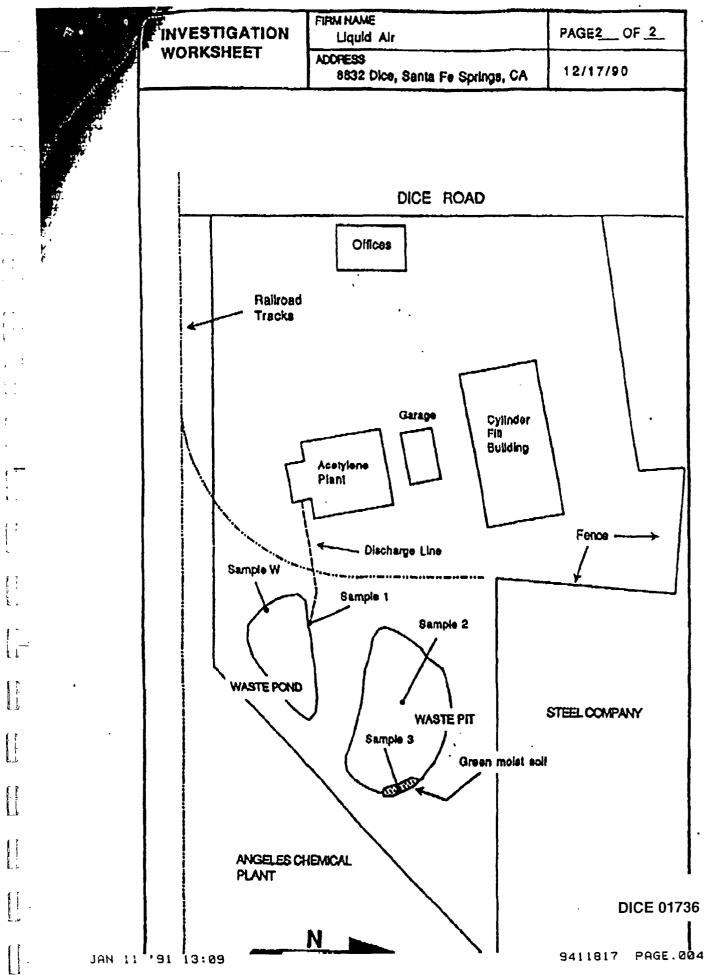
Sample ID pH (Units) by EPA 150.1/9040

1A 12.8 2A 12.9 W-A 12.7

Date Analyzed: 12-20-90

Page 2 of 2





SANTA FE SPRINGS FIRE DEPARTMENT 11300 Greenstone Ave Santa Fe Springs, CA 90 (213) 944-9713  TO:		ATTENTION ENLIN	A SOL H		AL
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#### WEST COAST ANALYTICAL SERVICE, INC.

JOHN L. HUNTER & ASSOCIATES Mr. John L. Hunter Job # 17412 December 31, 1990

#### LABORATORY REPORT

#### TABLE 1

#### Parts Per Million (mg/Kg)

Sample ID Total Alkalinity by SM 403

1A 510000 2A 320000 Detection Limit 1000

Date Analyzed: 12-27-90

#### TABLE 2

#### Parts Per Million (mg/L)

Sample ID Total Alkalinity by SM 403

W-A 300000 Detection Limit 10000

Date Analyzed: 12-27-90

#### TABLE 3

Sample ID pH (Units) by EPA 150.1/9040

1A 12.8 2A 12.9 W-A 12.7

Date Analyzed: 12-20-90

Page 2 of 2

**DICE 01738** 

- LXX 6: C3 ----

Client: Job Number:

Date Analyzed:

John L. Hunter & Assoc.

Sample:

18

File:

17412

12-26-90

L\_9\_

7438

C.A.M. Metals

Quantitative Analysis Report Inductively Coupled Plasma-Mass Spectrometry Total Metals Concentration---Parts Per Million

\*\*\*\* Exceeds TTLC limits

\* May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STLC Limits mg/Kg	TTLC Limits mg/Kg
Antimony	ND<0.1	0.1	150	500
Arsenic	0.08	0.07	50	500
Barium	20.4	0.2	. 1000	10000
Beryllium	0.62	0.07	7.5	75
Cadmium	ND<0.02	0.02	10	100
Chromium (II)	I/VI) 3.2	0.2	5600/50	2500/500
Cobalt	0.98	0.02	800	8000
Copper	9	0.2	250	2500
Lead	2.69	0.1	50	1000
Mercury	ND<0.06	0.06	2	20
Molybdenum	0.14	0.03	3500	3500
Nickel	ND<8	8	200	2000
Selenium	0.4	0.3	10	100
Silver	ND<0.02	0.02	50	500
Thallium	ND<0.02	0.02	70	700
Vanadium	7.92	0.05	240	2400
Zinc	6.3	0.6	2500	5000

<sup>(1)</sup> ND-Not Detected. The Limit of Detection is reported above.

(2) Chromium reported above as total chromium in sample.



<sup>(3) 10</sup>X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client:
Job Number:

John L. Hunter & Assoc.

Sample:

2λ

Job Number: Date Analyzed:

17412 12-26-90

C.A.M. Metals

File:

7438 251

Quantitative Analysis Report Inductively Coupled Plasma-Mass Spectrometry Total Metals Concentration---Parts Per Million

\*\*\*\* Exceeds TTLC limits

\* May exceed STLC limits

	Sample mg/Kg	Detection Limit	1.0X STLČ Limits mg/Kg	TTLC Limits mg/Kg
Antimony	ND<0.1	0.1	150	500
Arsenic	0.2	0.07	50	500
Barium	29.7	0.2	. 1000	10000
Beryllium	0.49	0.06	7.5	75
Cadmium	0.04	0.02	10	100
Chromium (III/VI	) 6.4	0.2	5600/50	2500/500
Cobalt	2.38	0.02	800	8000
Copper	5.4	0.2	250	2500
Lead	3.36	0.09	50	1000
Mercury	ND<0.05	0.05	2	20
Molybdenum	0.41	0.03	3500	3500
Nickel	37	10	200	2000
Selenium	0.7	0,3	10	100
Silver	ND<0.02	0.02	50	500
Thallium	ND<0.02	0.02	70	700
Vanadium	43.4	0.05	240	2400
zine	7.4	0.6	2500	5000

<sup>(1)</sup> ND-Not Detected. The Limit of Detection is reported above.

(2) Chromium reported above as total chromium in sample.

<sup>(3) 10</sup>X STLC Limits used as comparison takes into account dilution of the sample by 1/10 during leachate preparation.

Client: Job Number: Date Analyzed: John L. Hunter & Assoc. Sample:

3 %

17412 12-26-90

Pile:

7438 261

C.A.M. Metals

Quantitative Analysis Report Inductively Coupled Plasma-Mass Spectrometry Total Metals Concentration --- Parts Per Million

\*\*\*\* Exceeds TTLC limits

\* May exceed STLC limits

	Sample mg/Kg	Detection Limit	10X STIC Limits mg/Kg	TTIC Limits mg/Kg
Antimony	ND<0.1	0.1	150	500
Arsenic	0.74	0.06	50	500
Barium	25.8	0.2	. 1000	10000
Beryllium	0.16	0.06	7.5	75
Cadmium	ND<0.02	0.02	10	100
Chromium (III	/VI) 3.6	0.2	5600/50	2500/500
Cobalt	1.11	0.02	800	8000
Copper	5.7	0.2	250	2500
Lead	0.57	0.09	50	1000
Mercury	ND<0.05	0.05	2	20
Molybdenum	0.1	0.03	3500	3500
Nickel	6	5	200	2000
Selenium	ND<0.3	0.3	10	100
Silver	ND<0.02	0.02	50	500
Thallium	ND<0.02	0.02	70	700
Vanadium	5.85	0.05	240	2400
zinc	5.5	0.6	2500	5000

<sup>(1)</sup> ND-Not Detected. The Limit of Detection is reported above.

<sup>(2)</sup> Chromium reported above as total chromium in sample.(3) 10X STLC Limits used as comparison takes into account

dilution of the sample by 1/10 during leachate preparation.

Client:

John L. Hunter & Assoc.

Job Number: Date Analyzed: 17412 12-26-90

### C.A.M. Hetals Quantitative Analysis Report Inductively Coupled Plasma-Mass Spectrometry

#### Parts Per Million (mg/L)

	W-X	Blank DL
Beryllium	ND<0.003	0.003
Vanadium	ND<0.003	0.003
Chromium	ND<0.007	0.007
Cobalt	0.002	0.001
Nickel	ND<0.04	0.04
Copper	0.007	0.003
Zinc	0.66	0.02
Arsenic	0.001	0.001
Selenium	0.04	0.04
Molybdenum	ND<0.002	0.002
Silver	ND<0.001	0.001
Cadmium	ND<0.001	0.001
Antimony	ND<0.003	0.003
Barium	5.49	0.003
Mercury	ND<0.002	0.002
Thallium	ND<0.001	0.001
Lead	ND<0.003	0.003

ND-Not Detected. The detection limit (DL) is stated above. Because of sample interferences, Sample DLs may differ from Blank DLs.

SAMPLE: 3A JOHN L. HUNTER CLIENT:

WCAS JOB #: 17412

17412V6 12/18/90 RUN NUMBER: DATE RECEIVED: SAMPLE AMOUNT: 1.0G DATE EXTRACTED: 12/27/90 HATRIX: SOLID DATE ANALYZED: 12/27/90

UNITS: UG/KG (PPB) VOLATILE ORGANICS (EPA 624/8260)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	180.	30.
71-43-2	BENZENE	ND	5.
75-27-2	BROMODICHLOROMETHANE	ND	5.
75-25-2	BRONOFORM	ND	5.
74-83-9	BROMOMETHANE	ND	30.
78-93-3	2-BUTANONE (NEK)	ND	30.
75-15-0	CARBON DISULFIDE	6.	5.
56-23-5	CARBON TETRACHLORIDE	ИD	5.
108-90-7	CHLOROBENZENE	ND	5.
75-00-3	CHLOROETHANE	ИD	30.
110-75-8	2-CHLOROETHYLVINYL ETHER	ИD	50.
67-66-3	CHLOROFORM	ИД	5.
74 <b>-87-</b> 3	Chloromethane	ИD	30.
108-41-8	CHLOROTOLUENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ИD	5.
95-50-1	1,2-dichlorobenzene	ND	5.
541-73-1	1,3-dichlorobenzene	ИД	5.
106-46-7	1,4-dichlorobenzene	DN	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
107-06-2	1,2-dichloroethane	ИD	5.
75-35-4	1,1-dichloroethylene	ND	5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	5.
156-60-5		ИD	5.
78-87-5 10061-01-5	1,2-DICHLOROPROPANE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ИD	5.
10061-02-6	TRANS-1, 3-DICHLOROPROPENE	Ир	5.
700-47-4	DANINDENGENE	Ир	5.
106-93-4	ETHYLENE DIBROMIDE	ИD	5.
76-13-1	FREON-TF	ND	5.
119-78-6 75-09-2	2-HEXANONE METHYLENE CHLORIDE	ND	30.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND ND	30. 30.
100-42-5	STYRENE	ИD	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ИD	5.
127-18-4	TETRACHLOROETHYLENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	30.
108-88-3	TOLUENE	ND	5.
	1,1,1-TRICHLOROETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5. 5.
79-01-6	TRICHLOROETHYLENE	ИD	5.
75-69-4	TRICHLOROFINOROMETHANE	ND	5. 5.
108-05-4	VINYL ACETATE	ИD	30.
75-01-4 .	VINYL CHLORIDE	ND	30.
95-47-6	TOTAL XYLENES	ND	5.
		312	٠.

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SFS FIRE DEPT

> 08

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT:

JOHN L. HUNTER

SAMPLE: JA

WCAS JOB #: 17412

UNITS: UG/KG (PPB)

approximate

COMPOUND NAME FRACTION CONCENTRATION

1 UNIDENTIFIED COMPOUND

VOX

40.

CLIENT:

JOHN L. HUNTER

SAMPLE: W-A

WCAS JOB 4: 17412

12/18/90 DATE RECEIVED: DATE EXTRACTED: 12/27/90 12/27/90 DATE ANALYZED:

RUN NUMBER: 17412V7 SAMPLE AMOUNT: 5ML MATRIX: WATER

UNITS: UG/L (PPB) VOLATILE ORGANICS (EPA 624/8260)

CAS # COMPOUND CONCENTRATION DET LIM 67-64-1 ACETONE 220.	==== 5.
	5.
71-43-2 BENZENE ND	1.
75-27-2 BROMODICHLOROMETHANB ND	1.
75-25-2 BROMOFORM ND	1.
74-83-9 BROMOMETHANE ND	5.
78-93-3 2-BUTANONE (MEK) 15.	5.
75-15-0 CARBON DISULPIDE ND	1.
56-23-5 CARBON TETRACHLORIDE ND	1.
108-90-7 CHLOROBENZENE ND	1.
75-00-3 CHLOROETHANE ND	5.
110-75-8 2-CHLOROETHYLVINYL ETHER ND	0.
67-66-3 CHLOROFORM ND	1.
74-87-3 CHLOROHETHANE ND	5.
108-41-8 CHLOROTOLUENE ND	1.
124-48-1 DIBROMOCHLOROMETHANE ND	l.
95-50-1 1,2-DICHLOROBENZENE ND	1.
541-73-1 1,3-DICHLOROBENZENE ND	1.
106-46-7 1,4-DICHLOROBENZENE ND	1.
75-34-3 1,1-DICHLOROETHANE ND	1.
107-06-2 1,2-DICHLOROETHANE ND	1.
75-35-4 1,1-DICHLOROETHYLENE ND	1.
156-59-4 CIS-1,2-DICHLOROETHYLENE ND	1.
156-60-5 TRANS-1,2-DICHLOROBTHYLENE ND	1.
78~87~5 1,2~DICHLOROPROPANE ND 10061~01~5 CIS~1,3~DICHLOROPROPENE ND 10061~02~6 TRANS_1 2~DICHLOROPROPENE	1.
10061-01-5 CIS-1,3-DICHLOROPROPENE ND	1.
10001-02-0 1KANS-1, 3-DICHLOROPKOPENE ND	1.
100-41-4 ETHYLBENZENE ND	1,
106-93-4 ETHYLENE DIBROMIDE ND	1.
76-13-1 FREON-TF ND	1.
119-78-6 2-HEXANONE ND	5.
75~09-2 METHYLENE CHLORIDE ND	7.
108-10-1 4-METHYL-2-PENTANONE (MIBK) ND 100-42-5 STYRENE ND	5.
100-42-5 STYRENE ND ND ND ND	1.
127-18-4 TETRACHLOROETHYLENE ND	1.
109-99-9 TETRAHYDROFURAN ND	5.
108-88-3 · TOLUENE ND	1.
71-55-6 1,1,1-TRICHLOROBTHANE 2.	1.
79-00-5 1,1,2-TRICHLOROETHANE ND	1.
79-01-6 TRICHLOROETHYLENE ND	1.
75-69-4 TRICHLOROFLUOROMETHANB ND	ī.
108-05-4 VINYL ACETATE ND	5.
75-01-4 VINYL CHLORIDE ND	5. 5.
95-47-6 TOTAL XYLENES ND	1.

#### TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT:

JOHN L. HUNTER

SAMPLE: W-A

HCAS JOB #: 17412

UNITS: UG/L (PPB)

COMPOUND NAME FRACTION CONCENTRATION

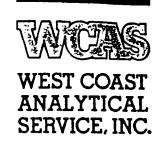
1 UNIDENTIFIED COMPOUND VOA 20.

**DICE 01746** 

JAN 28 '91 16:45

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ANALYTICAL CHEMISTS

January 10, 1991

Mr. David N. Simon LIQUID AIR 2121 North California Blvd. Walnut Creek, CA 94596

Dear Mr. Simon:

During your visit on 1-9-91 we reviewed the work our lab had done for Mr. John Hunter on Job Number 17412, especially the pH and 8240 results. At that time I agreed to write this letter to voice my opinion about the significance of the test results.

Prior to our discussion about pH, my feeling was that measuring pH at extremes (<2 and >11) was not very accurate. Our pH meter is typically calibrated to only pH 10 according to the manufacturers instructions. After our discussions about other standard buffers and temperature effects at high pH, we have now changed our Standard Operating Procedure (SOP) so that more accurate measurements can be made at extreme pHs, probably within 0.1 pH units. We appreciate the information you shared with us.

A review of the volatile organic (EPA 8240) results for acetone, MEK, and carbon disulfide was of little help in determining their origin. The data showed that these compounds were not in our blank or the samples analyzed just before yours, at least not at concentrations as high as your samples. We must warn you that this test is very sensitive, and that test showed low levels just above the detection limits. While it might seem that 200 ppb of acetone is significant, that result is only six times our detection limit. As you saw from the chromatograms, acetone was a very tiny peak. We generally tell our clients not to place much significance on results unless they are at least 10 times the detection limit. A recent news letter (enclosed) discusses this. While acetone was only 6-7 times the detection limit, carbon disulfide and MEK were reported right at detection limits, making their origin even more suspect.

While this does not help find the origin of these compounds, the point is that their presence and concentration in your samples is suspect. Our position is that no conclusion should or ought to be made for such components. There are many potential origins for such low concentrations being found. Even though the data does not support laboratory contamination, it can not be completely ruled out. Other sources of contamination are as follows:

- 1. Ambient Air. Aldehydes and ketones are ubiquitous in nature. The environmental literature has many references for extraordinary care required in sampling for chemicals that are present in nature. Acetone is not only a very common industrial chemical, but it is naturally occurring. MEK often accompanies acetone as an impurity.
- 2. Sampling containers. Many plastics, adhesives, and packing materials contain traces of various solvents.
- Contamination during transport and storage.

The latter two possibilities could have been made less likely if a trip blank and/or field blank had been submitted and found clean. In their absence, the potential for trace contamination from a variety of sources is a real possibility.

In conclusion, a great deal more work would be necessary to determine conclusively whether acetone, MEK, and carbon disulfide are actually in your samples. Multiple field samples, field blanks, and trip blanks would be required. We hope that this information is helpful.

Please let us know if this meets with your approval. If so, I'll send you a signed original and send Mr. Hunter a copy.

Sincerely,

WEST COAST ANALYTICAL SERVICE, INC.

D.J. Northington, Ph.D.

President

DJ/mc H:LIQAIR.110

cc: John Hunter

Enclosure: Newsletter



#### CERTIFIED MAIL RETURN RECEIPT REQUESTED NO. P 308 559 139

February 8, 1991

Robert C. Wilson, Fire Chief City of Santa Fe Springs 11300 Greenstone Ave. Santa Fe Springs, CA 90670-4619

Subject: Liquid Air Corporation

8832 Dice Road

Santa Fe Springs, CA 90670

Dear Chief Wilson:

After our meeting on January 9, 1991, (our) Scott Gordon and I met with Mr. Jack Northington, President of West Coast Analytical Service, the lab who analyzed our lime and limewater from Santa Fe Springs. He confirmed to us that the pH and organic compound test results obtained cannot be relied upon to make any regulatory determinations as explained in his January 10, 1991 letter to me, attached. In sum:

- The pH tests on the lime and limewater are invalid because EPA Test Method 9040 (required under 40 CDR 261.22 (a)(1) and Title 22 CCR 66708 (a)(1)) and established laboratory procedures were not followed in that:
  - a. Method 9040 requires that buffer solutions used to calibrate the pH instrument must bracket the expected value and be at least 3 pH units apart. This means the correct buffer solutions should be a saturated solution of calcium hydroxide (pH 12.454 @ 25°C) and 0.01 M Borax (pH 9.180 @ 25°C). The buffer solutions used by West Coast Analytical were pH 7 and 10. No bracketing took place.

**DICE 01749** 

.../...

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Robert Wilson Page 2 February 8, 1991

b. The standard temperature for the characterization of chemical compounds including equilibrium constants is 25°C. The lime and limewater samples were measured at an unrecorded "room temperature," two hours after removal from the refrigerator. 1

Sample (and buffer) solutions temperatures must be recorded; they were not. Further, the standard temperature for regulatory purposes when measuring pH must be 25·C, the temperature upon which the 0-14 pH scale is based <sup>2</sup> and the temperature at which the pH of the buffer solutions is given. The pH of alkaline solutions is very sensitive to temperature.

- c. The lime and limewater samples were not filtered prior to measuring pH. Measurements of pH in solutions containing solid suspensions are often erroneous and thus not reliable, particularly when a combination pH electrode is used. It is a sound practice to remove the suspended solids by filtration before testing.
- d. The pH measuring instrument used has inherent inaccuracies in the upper non-linear pH measuring range.

The pH of hydrated lime (saturated solution of calcium hydroxide) cannot exceed 12.454 at 25.C. Bates, NBS A66 (1962). Merck Index, 11th edition.

- 2. The organic compound tests on the lime and limewater are invalid because sampling procedures in EPA's SW-846 Manual were not followed as explained hereunder:
  - a. Portable sample bottle contamination. No field blank was used or analyzed to verify cleanliness.
  - b. Sample bottles were not capped and sealed properly. The

dns3091.ltr

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In fact, evaporation would cause the sample temperature to be lower than the room temperature.

Standard Methods for Investigating Water and Wastewater, AWWA, 1985 Ed., p. 429

Robert Wilson Page 3 February 8, 1991

lime brass core samplers should have been capped and sealed with teflon (inert) sheets. Instead, they were sealed with electrical tape which commonly emits organic vapors from glue. The limewater sample bottle should have been a VOA glass bottle sealed with a teflon lined septum. The bottle used was sealed with a polymeric (plastic) type material.

c. Sample results were less than 10-20 times the detectable limit for the respective compound measured. This makes them unreliable.

In view of the foregoing, we think you will readily agree that the sampling and analysis performed on our material were seriously flawed and therefore not indicative of the material's physical character.

I would be pleased to provide any additional information or assistance that you may need.

Very truly yours,

David N. Simon

Manager Regulatory Affairs

DNS/je/cb

CC: John Baird, Esq. - General Counsel Liquid Air Corp.
Steve Pebler - Liquid Air, Santa Fe Springs

#### Kennedy/Jenks Consultants

#### APPENDIX E

#### SOUTHERN CALIFORNIA LABORATORY REPORT 9 SEPTEMBER 1991

ang. 26, 1991 Liquid air Corp. 8832 Dice Road Santa Fe Springs, CA CAD000021160 00 aug. 26, 1991 8 samples were collected at hiquid air Conp. Four (4) sample were given to Brian Leger on Aug. 26, 1991 (split Samples). G. Hernandez, CAL EPA

Began heges Uglied din Representative

8/26/91 Des E Southern California Laboratory ~ Hazardous Materials Unit 1449 Temple Street, Los Angeles Ca. 90026 Telephone 213-620-3376

To

: Guillermo Hernandez.

SCL No.

: 10389 to 10392.

Sampling No.

: See below.

Date of Report: 9-9-91.

9-9-91.

Sample Location: Liquid Air.

See Balea.

Analytical Procedures Used: Digestion: EPA 3055

Analysis : EPA 6010.

pH : EPA 9040 & 9045.

		Analysis	Results:		<del>/************************************</del>
SCL No.	10389	10390	10391-Liquid	10391-Liquid 10391-Solids	
Field No.	LA-SA-01	LA-SA-02	LA-S/	4-03	LA-SA-04
Units	mg/Kg	mg/L	mg/L	mg/Kg	mg/Kg
Silver	₹4	(4	<4	<b>(50</b>	<50
Arsenic	(4	<4	<4	<50	⟨50
Barıum	6	6	6	<50	₹50
Beryllium	<0.4	<0.4	<0.4	<b>(5</b>	<5
Cadmium	<0.8	<0.8	<0.8	<10	<10
Cobalt	<b>&lt;4</b>	<4	<4	<50	<b>&lt;50</b>
Chromium	<b>&lt;4</b>	<4	<b>〈</b> 4	<50	(50
Copper	⟨4	(4	< 4	₹50	₹50
Molybdenum	< 4	(4	<4	<50	₹50
Nicke1	<b>&lt;4</b>	<b>&lt;4</b>	<b>&lt;4</b>	<50	⟨50
Lead	₹4	<b>&lt;4</b>	<b>〈</b> 4	⟨50	₹50
Antimony	<4	<b>&lt;4</b>	< 4	<50	<50
Selenium	<0.8	(0.8	(0.8	<10	<10
Thallium	₹4	₹4	<4	<50	<b>&lt;50</b>
Vanadium	<4	(4	<b>(4</b>	<50	₹50
Zinc	<4	<4	<b>&lt;4</b>	<50	<50
pH	12.3 at 22 deg C	12.3 at 21 deg C			9.4 at 25 deg (

Analyst's Signature

Jay Palel

Supervisor's Signature

**DICE 01754** 

9-10-91

Date

Janice Wakakuwa

2/10/2/ Date

OC Summary for Metal Analysis
Southern California Laboratory - Hazandous Materials Unit
1449 Temple Street, Los Angeles, Ca. 90026
Telephone 213-620-3376

To : Guillermo Hernandez.

Sample Set SCL Nos: 10389 to 1039:

Matrix : Liquids & Solids Date

Date of Analysis : 9-6-91.
Standard Lot Number: SP0891DK100/2(

Level of Spike: 10 & 2 ppm. Duplicate done on: 10392.

Spike done on : 10392.

Sample Location: Liquid Air.

Analytical Procedures Used: Digestion: EPA 3055 Analysis: EPA 6010

	Reagent		Laboratory		•	% F	RPD	1
	Blank	Std % Rec	Expected Range	Dup A	und   Dup B	Ref	SMPL	Matri; Spike % Rec
I.D. of the	a Labora	tory Co	ntrol Sampl	e: RMM 1	088	Material	DUP	* Rec
Units	mg/L	*	mg/kg	mg/kg	mg/kg	x	×	×
Silver	<1	109	360-505	474	454	5	*	86
Arsenic	<1	104	1550-1890	2219	1684	(27)	*	82
Barium	<1	107	2520-4480	4097	4062	0.9	*	90
Beryllium	(0.1	111	41-96	88	84	2	*	83
Cadmium	<0.2	108	406-490	476	441	8	*	75
Cobalt	<1	105	3280-3990	3746	3566	5	*	76
Chromium	<1	105	2110-2550	2412	2252	7	*	80
Copper	< 1	109	1900-2760	2427	2260	7	*	93
Molybdenum	<1	**	2970-3600	3465	3134	10	*	**
Nickel	<1	107	1860-2010	1892	1783	6	*	78
Lead	<1	104	900-1150	968	949	2	*	78
Antimony	<1	**	310-548	519	502	3	*	**
Selenium	0.23	104	380-500	485	432	12	*	91
Thallium	< 1	95	580-1060	1687	805	(71)	*	72
Vanadium	<1	103	3060-3680	3486	3380	3	*	89
Zinc	<1	106	2570-3280	2894	2767	5	*	86
Acceptable	Range	80%-120	0%		<u></u>	< 20	× :	75%-125%

\*Element not found. \*\*Element not present in std used. ()Refer narretive.

Analyst's Signature

**DICE 01755** 

1733

Jana Wahakura

Supermisor's Signature

Janice Wakakuwa

9/0/9, Date

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Pale.

## STATE OF DELAWARE OFFICE OF SECRETARY OF STATE

I, EUGENE BUNTING, Secretary of State of the State of Delaware, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of Certificate of Incorporation of the "INTERNATIONAL LIQUID AIR INC.", as received and filed in this office the ninth day of January, A. D. 1970, at 10 o'clock A. M.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal at Dover this ninth day of January in the year of our Lord one thousand nine hundred and seventy.

EUGENE BUNTING Secretary of State

R. H. CALDWELL Ass't. Secretary of State

#### CERTIFICATE OF INCORPORATION

of

#### INTERNATIONAL LIQUID AIR INC.

#### ---00000---

- 1. The name of the corporation is INTERNATIONAL LIQUID AIR INC.
- 2. The address of its registered office in the State of Delaware is No. 100 West Tenth Street, in the City of Wilmington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
- 3. The nature of the business or purposes to be conducted or promoted is:

To engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of Delaware.

- 4. The total number of shares of stock which the corporation shall have authority to issue is two thousand (2,000); all of such shares shall be without par value.
  - 5. The name and mailing address of each incor-

porator is as follows:

# NAME B. J. Consono 100 West Tenth Street Wilmington, Delaware F. J. Obara, Jr. 100 West Tenth Street Wilmington, Delaware J. L. Rivera 100 West Tenth Street Wilmington, Delaware

WE, THE UNDERSIGNED, being each of the incorporators hereinbefore named, for the purpose of forming a corporation pursuant to the General Corporation Law of the State of Delaware, do make this certificate, hereby declaring and certifying that this is our act and deed and the facts herein stated are true, and accordingly have hereunto set our hands this 9th day of January, 1970.

	В.	J.	Consono
			•
	F.	J.	Obara, Jr.
•			
	J.	L.	Rivera

STATE OF DELAWARE )
COUNTY OF NEW CASTLE )

BE IT REMEMBERED that on this 9th day of January A. D. 1970, personally came before me, a Notary Public for the State of Delaware, B. J. Consono, F. J. Obara, Jr. and J. L. Rivera, all of the parties to the foregoing certificate of incorporation, known to me personally to be such, and severally acknowledged the said certificate to be the act and deed of the signers respectively and that the facts stated therein are true.

GIVEN under my hand and seal of office the day and year aforesaid.

 Α.	Dana	At	well	
	Notar	ÿ	Publi	C

" A. DANA ATWELL "
" NOTARY PUBLIC "
" APPOINTED OCT. 27, 1969 "
" STATE OF DELAWARE "
" TERM TWO YEARS "



I, Revert B. Reed, Secretary of State of the State of Delaware, De Bereit But that the above and foregoing is a true and correct copy of Certificace of Amendment of the "INTERNATIONAL LIQUID AIR INC.", as received and filed in this office the twenty-second day of March, A.D. 1973, at 10 o'clock A.M.

and official seal a	t Dover this	twenty-second @	larj
· of	March	_in the year of our L	ord
one thousand	nine hundred a	V	<u>:</u>
~			
``````````````````````````````````````	Q.	But H. Quil	) -
<b>,</b>	***************************************	Secretary of	State
		Marshall.	
		Ass't Secretary of	State

In Westimony Whereof, I have hereunto set my hand

FORM 120

#### CERTIFICATE OF AMENDMENT

OF

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#### RESTATED CERTIFICATE OF INCORPORATION

INTERNATIONAL ENQUID AIR INC., a compensation contamized and existing under and by virtue of the Comporation Law of the State of Delaware, EODS LEED OF CERTIFY:

FIRST: That the Board of Directors of International Educid Air Inc., by unanimous consent without a missing pursue to Section 141(f) of the General Corporation La. on the State of Delaware, duly adopted resolutions setting for the proposed amendment to the Restated Certificate of Incorporation of the Corporation, declaring said amendment to be advisable and calling for consideration thereof by the stackholiker of the Corporation. The resolution setting forth the proposal amendment is as follows:

RESOLVED, that the name of this Corporation of hardhe be changed to "Liquid Air Corporation of hardhe America" and that Article 1 of the Restable Statisticate of Incorporation of this Corporation of amended to read as follows:

1. The name of the corporation is LIGUID AIR CORPORATION OF NORTH AMERICA.

SECOND: That written consent to the first the by the holder of record of more than a majority of the Double and outstanding capital stock of the Corporation of the vote on the Amendment has been duly given in according to the provisions of Section 228 of the General Congressions Law

of the State of Delaware, and that written notice of the valing of such action has been duly given in accordance with the provisions of Section 228 of the General Corporation Law of the state of Delaware to all stockholders who did not compant in writing.

THIRD: That said Amendment was duly adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said International Liquid Air Inc. has caused this certificate to be signed by Pierre ... Salkalag, its President, and attested by Ward J. Sheridan, Its Secretary, this 21st day of March, 1973.

INTERNATIONAL LIQUID HUR HIG.

Ву

Pierre A. Salucia

ه بایک کندیرز ۰

Lard J. Sher Man, Secretary

## State of Delaware Office of the Secretary of State

I, WILLIAM T. QUILLEN, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP OF AL AMERICA HOLDINGS, INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, MERGING LIQUID AIR CORPORATION A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, PURSUANT TO SECTION 253 OF THE GENERAL CORPORATION LAW OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TENTH DAY OF JANUARY, A.D. 1994, AT 1 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CORPORATION SHALL BE GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE APPROPRIATE COUNTY RECORDER OF DEEDS FOR RECORDING.

**DICE 01763** 



William T. Quillen, Secretary of State

**AUTHENTICATION:** 

\*4235404

DATE.

## CERTIFICATE OF OWNERSHIP AND MERGER MERGING LIQUID AIR CORPORATION INTO AL AMERICA HOLDINGS, INC.

(Pursuant to Section 253 of the General Corporation Law of the State of Delaware)

AL America Holdings, Inc., a corporation organized and existing under the laws of the State of Delaware (the "Corporation"), DOES HEREBY CERTIFY:

FIRST: That the Corporation was incorporated on the 2nd day of July, 1987, pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all of the outstanding shares of each class of stock of Liquid Air Corporation, a corporation incorporated on the 9th day of January, 1970, pursuant to the General Corporation Law of the State of Delaware.

THIRD: That the Corporation, by the following resolutions of its Board of Directors, duly adopted by the unanimous written consent of the directors dated December 2, 1993 and filed with the minutes of the Board of Directors, determined to merge into itself its wholly-owned subsidiary, Liquid Air Corporation, on the conditions set forth in such resolutions:

RESOLVED, that Liquid Air Corporation, a Delaware corporation, all of the issued and outstanding capital stock of which is owned by this Corporation, be merged into this Corporation, in accordance with the applicable provisions of the laws of the State of Delaware, and that this Corporation assume all of the liabilities and obligations of said Liquid Air Corporation upon such merger; and further

RESOLVED, that the merger shall not involve the issuance of any additional shares of capital stock of the Corporation and that there shall be no change in the Certificate of Incorporation of the Corporation as the surviving corporation as a result of the merger; and further

RESOLVED, that the merger shall become effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of the State of Delaware, but shall, for accounting and all other purposes, be deemed to have become effective as of 12:01 a.m. on January 1, 1994; and further

-2-

RESOLVED, that the proper officers of the Corporation be, and they hereby are, authorized and directed to make, execute and file such agreements, certificates, consents and other papers as may, in their judgment, be necessary or desirable in order to effectuate the merger, and that, in furtherance of this authorization, the President or any Vice President and the Secretary or any Assistant Secretary are hereby authorized to make, execute and file a Certificate of Ownership and Merger as required by the laws of the State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this certificate to be signed by Robert D. Cadieux, its President, and attested by John N. Baird, its Secretary, this <u>17</u> day of December, 1993.

AL AMERICA HOLDINGS, INC.

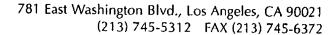
By:

Robert D. Cadieux, President

ATTEST:

Rv:

John N. Raird Secretary





July 06, 2007

Mr. Oscar Perez Clean Harbors Environmental Service 2500 E. Victoria Street Compton, CA 90220

Report No.: 7060278

Project Name: Air Liqiude

Dear Mr. Oscar Perez,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on June 29, 2007.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.



#### **Certificate of Analysis**

Page 2 of 7

File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Clean Harbors Environmental Service

2500 E. Victoria Street Compton, CA 90220

Phone: (310) 764-5851 FAX:(310) 764-5863

Attn: Mr. Oscar Perez Project: Air Liquide

Sample ID:	AL1	Soil	(7060278-01)	Sample	d:06/	29/07 09		eceived:06/29/07 1	0:10			
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Metho	d Prepared	Analyzed	Ву	Batch
рH			12.3		1	pH Units	0.1	EPA 9045C EPA 904	SC 07/02/07	07/02/07	ge	BG70218
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Metho	d Prepared	Analyzed	Ву	Batch
Antimony			5.16		1	mg/kg	2 50	EPA 3050B EPA 601	OB 07/02/07	07/02/07	cj	BG70208
Arsenic			6.97		1	mg/kg	1.00	EPA 3050B EPA 601	0B 07/02/07	07/02/07	C)	BG70208
Barlum			228		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	G	BG7020
Beryllium			ND		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	cj	BG7020
Cadmium			2.39		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	d	BG7020
Chromium			50.1		1	mg/kg	1 00	EPA 3050B EPA 601	0B 07/02/07	07/02/07	d	BG7020
Cobalt			8.65		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	d	BG7020
Copper			39.5		1	mg/kg	1 00	EPA 3050B EPA 601	0B <b>07/02/</b> 07	07/02/07	cj	BG7020
Lead			27.2		1	mg/kg	0.500	EPA 30508 EPA 601	OB 07/02/07	07/02/07	cj	BG7020
Molybdenum			ИD		1	mg/kg	1 00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	cj	BG7020
Nickel			20.4		1	mg/kg	2.00	EPA 3050B EPA 601	08 07/02/07	07/02/07	cj	BG/020
Selenium			2.18		1	mg/kg	1 00	EPA 3050B EPA 601	08 07/02/07	07/02/07	cj	BG7020
Silver			ND		1	mg/kg	1.00	EPA 3050B EPA 601	08 07/02/07	07/02/07	c)	BG7020
Thallium			ND		1	mg/kg	1 00	EPA 30508 EPA 601	OB 07/02/07	07/02/07	g	BG7020
Vanadium			34.9		1	mg/kg	1.00	EPA 30508 EPA 601		07/02/07	ģ	BG7020
Zinc			117		1	mg/kg	5.00	EPA 3050B EPA 601		07/02/07	ģ	BG7020
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Metho		Analyzed	Ву	Batch
Mercury			0.161		1	mg/kg	0.100	EPA 7471A EPA 747	1A 07/02/07	07/03/07	ds	BG7021
Sample ID:	AL2	Soil	(7060278-02)	Sample	ed:06/	29/07 09	:06 R	eceived:06/29/07 10	0:10			
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Metho	d Prepared	Analyzed	Ву	Batch
рН			12.0		1	pH Units	0.1	EPA 9045C EPA 904	5C 07/02/07	07/02/07	ge	BG7021
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Metho	d Prepared	Analyzed	Ву	Batch
Antimony			5.52		1	mg/kg	2.50	EPA 3050B EPA 601	0B 07/02/07	07/02/07	cj	BG7020
Arsenic			10.0		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	c]	BG7020
Barium			159		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	cj	BG7020
Beryllium			ND		1	mg/kg	1.00	EPA 3050B EPA 601	OB 07/02/07	07/02/07	d	BG7020
Cadmium			2.37		1	mg/kg	1.00	EPA 3050B EPA 601	08 07/02/07	07/02/07	c)	BG7020
Chromium			29.8		1	mg/kg	1 00	EPA 3050B EPA 601	0B 07/02/07	07/02/07	d	BG7020
Cobalt			10.4		1	mg/kg	1.00	EPA 3050B EPA 601	0B 07/02/07	07/02/07	cj	BG7020
Copper			35.4		1	mg/kg	1 00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Lead			34.7		1	mg/kg	0.500	EPA 3050B EPA 601		07/02/07	cj	BG7020
Motybdenum			ND		1	mg/kg	1.00	EPA 3050B EPA 601		07/02/07	d	BG7020
Nickel			17.2		1	mg/kg	2.00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Selenium			1.66		1	mg/kg	1.00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Silver			ND		1	mg/kg	1.00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Thallium			ND		1	mg/kg	1.00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Vanadium			44.0		1	mg/kg	1.00	EPA 3050B EPA 601		07/02/07	cj	BG7020
Zinc			103		1	mg/kg	5.00	EPA 30508 EPA 601	OB 07/02/07	07/02/07	cj	BG/020
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Methor	d Prepared	Analyzed	Ву	Batch
Mercury			0.340		1	mg/kg	0.100	EPA 7471A EPA 747		07/03/07	ds	BG7021
	AL3	Soil	(7060278-03)			29/07 09		eceived:06/29/07 10				
Sample ID: Analyte			Results	Flag	D.F.	Units	PQL	Prep/Test Method		Analyzed	Ву	Batch
			Results 10.5 Results	Flag	D.F. 1 D.F.	Units  pH Units  Units	0.1 POL	Prep/Test Method EPA 9045C EPA 904 Prep/Test Method	5C 07/02/07	07/02/07	By ge	Batch BG7021



#### **Certificate of Analysis**

Page 3 of 7

File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Clean Harbors Environmental Service

2500 E. Victoria Street Compton, CA 90220

Attn: Mr. Oscar Perez

Phone: (310) 764-5851

FAX:(310) 764-5863

_	• . •		
PFO	iect:	AIL	Liaiude

Sample ID:	AL3	Soil	(7060278-03)	Sample	ed:06/	29/07 09	:10 R	eceived:06/2	29/07 10:10				
Antimony			6.30		1	mg/kg	2.50	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Arsenic			11.0		1	mg/kg	1 00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Barium			163		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d)	BG70208
Beryllium			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Cadmium			2.63		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Chromium			32.8		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Cobalt			12.1		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Copper			30.6		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	g	BG70208
Lead			35.0		1	mg/kg	0.500	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Molybdenum			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG/0208
Nickel			19.0		1	mg/kg	2 00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	g	BG70208
Selenium			1.60		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Silver			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG/0208
Thallium			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Vanadium			50.2		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	ď	BG70208
Zinc			80.4		1	mg/kg	5.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
Mercury			0,423		1	mg/kg	0.100	EPA 7471A	EPA 7471A	07/02/07	07/03/07	ds	BG70210
Sample ID:	AL4	Soll	(7060278-04)	Sample	ed:06/2	29/07 0 <del>9</del>	:14 R	eceived:06/2	29/07 10:10				
Analyte			Results	Flag	DF.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
рH			12.2		1	pH Units	0.1	EPA 9045C	EPA 9045C	07/02/07	07/02/07	ge	BG70218
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
Antimony			5.76		1	mg/kg	2.50	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Arsenic			9.87		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Barium			156		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Beryllium			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	g	BG70208
Cadmium			2.30		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	g	BG70208
Chromium			34.9		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Cobalt			10.3		1	mg/kg	1.00	EPA 3050B	EPA 60108	07/02/07	07/02/07	ŋ	BG70208
Copper			40.5		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Lead			44.2		1	mg/kg	0.500	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Molybdenum			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	g	BG70208
Nickel			17.8		1	mg/kg	2.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Selenium			1.36		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Silver			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Thallium			ND		1	mg/kg	1 00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Vanadium			41.6		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	C)	BG70208
Zinc			93.2		1	mg/kg	5.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
Mercury			0.321		1	mg/kg	0.100	EPA 7471A	EPA 7471A	07/02/07	07/03/07	ds	BG70210
Sample ID:	AL5	Soil	(7060278-05)	Sample	ed:06/	29/07 09	:20 R	eceived:06/2	29/07 10:10				
Analyte			Results	Flag	D.F.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
рH			11.5		1	pH Units	0.1	EPA 9045C	EPA 9045C	07/02/07	07/02/07	ge	BG70218
Analyte			Results	Flag	DF.	Units	PQL	Prep/Te	est Method	Prepared	Analyzed	Ву	Batch
Antimony			4.96		1	mg/kg	2.50	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Arsenic			7.40		1	mg/kg	1.00	EPA 3050B	EPA 60108	07/02/07	07/02/07	C)	BG70208



### **Certificate of Analysis**

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File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Clean Harbors Environmental Service

2500 E. Victoria Street Compton, CA 90220

Attn: Mr. Oscar Perez

Phone: (310) 764-5851 FAX:(310) 764-5863

Project: Air Ligiude

Sample ID:	AL5	Soil	(7060278-05)	Sample	d:06/2	29/07 09	:20 R	celved:06/	29/07 10:10				
Beryllium			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Cadmium			2.17		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	C)	BG70208
Chromium			64.6		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Cobalt			9.80		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Copper			29.8		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Lead			26.1		1	mg/kg	0 500	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Molybdenum			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	þ	BG70208
Nickel			14.2		1	mg/kg	2.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	<b>c</b> }	BG70208
Selenium			1.33		1	mg/kg	1.00	EPA 30508	EPA 60108	07/02/07	07/02/07	cj	BG70208
Silver			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Thallium			ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	d	BG70208
Vanadium			40.9		1	mg/kg	1.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	cj	BG70208
Zinc			67.5		1	rng/kg	5.00	EPA 3050B	EPA 6010B	07/02/07	07/02/07	c)	BG70208
Analyte			Results	Fiag	D.F.	Units	PQL	Prep/Te	st Method	Prepared	Analyzed	Ву	Balch
Mercury			0.417		1	mg/kg	0.100	EPA 7471A	EPA 7471A	07/02/07	07/03/07	ds	BG70210



#### **Certificate of Analysis**

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Clean Harbors Environmental Service

2500 E. Victoria Street

File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Compton, CA 90220

Phone: (310) 764-5851

FAX:(310) 764-5863

Attn: Mr. Oscar Perez Project: Air Liqiude

		Qua	lity Contr	ol Data	) 					
				Spike	Source	η	%REC		RPD	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Lımit	Qualifier
Batch BG70218 - EPA 9045C		<del></del>			····					<del></del>
Duplicate Source: 7060278-01	Prepared & Analyzed	07/02/07								
рН	12.3	01	pH Units		12.3		Y. 100 feet	0 00	20	
Batch BG70208 - EPA 3050B										
Blank Prepared & Analyzed: 0	07/02/07	<del>,</del>			·					
Antimony	ND	2.50	mg/kg							
Arsenic	ND	1.00	mg/kg							
Barlum	ND	1.00	mg/kg			·				
Beryillum	ND	1.00	mg/kg							
Cadmium	ND	1 00	mg/kg							
Chromium	ND	1.00	mg/kg							
Cobalt	ND	1.00	mg/kg							
Copper	ND	1 00	mg/kg							
Lead	ND .	0.500	mg/kg							
Molybdenum	ND	1.00	mg/kg							
Nickel	ND	2.00	mg/kg	_,						
Selenium	ND	1 00	mg/kg							
Silver	ND	1.00	mg/kg							
Thallium	NO	1.00	mg/kg							
Vanadium	ND	1.00	mg/kg							
Zinc	ND	5.00	mg/kg							
LCS Prepared & Analyzed: 07,	/02/07									
Antimony	40.8	2.50	mg/kg	50.30		81.1	60-140			
Arsenic	171	1 00	mg/kg	200 4		85 5	80-120			
Barium	175	1.00	mg/kg	199.5		87.8	80-120			
Beryllium	4.16	1.00	mg/kg	5 020		82.9	80-120			
Cadmium	4.19	1.00	mg/kg	5.010		83.7	80-120			
Chromium	18.6	1.00	mg/kg	20.02	·	93.0	80-120			
Cobalt	42.6	1 00	mg/kg	50.20		84.8	80-120			
Copper	21.5	1.00	mg/kg	24.95		86.1	80-120		-	
Lead	41.6	0.500	mg/kg	50.20		82.8	80-120			
Molybdenum	42.3	1 00	mg/kg	50.00		84.7	80-120			
Nickel	43.8	2.00	mg/kg	50.10		87.5	80-120			
Selenium	160	1.00	mg/kg	201.6		79.4	80-120			
Silver	4.18	1 00	mg/kg	5.020		83.2	80-120		••••	
Thalllum	166	1.00	mg/kg	202 0		82.4	80-120			
Vanadium	40 8	1.00	mg/kg	50 30		81.1	80-120			
Zinc	47.5	5.00	mg/kg	50.10		94.7	80-120		***	
Matrix Spike Source: 7060275-	12 Prepared & Analyz		·,	<del></del>						
Antimony		2 50	rng/kg	50.30	2.45	89 3				



#### **Certificate of Analysis**

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File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Clean Harbors Environmental Service 2500 E. Victoria Street Compton, CA 90220

Attn: Mr. Oscar Perez

Phone: (310) 764-5851

FAX:(310) 764-5863

Project: Air Liqiude

<del> </del>	<del></del>		lity Contr							
	-			Spike	Source		%REC		RPD	
Analyte	Result	RL	Units	Level	Result	%REC	Umits	RPD	Limit	Qualifie
Batch BG70208 - EPA 3050B							<del></del>	<del></del>		
Arsenic	191	1.00	mg/kg	200.4	1 45	94.3	75-125			
Barlum	259	1.00	mg/kg	199.5	76 3	91,4	75-125			
Beryllium	3.68	1.00	mg/kg	5.020	ND	73.3	75-125			
Cadmium	5.61	1 00	mg/kg	5 010	1.25	87.0	75-125			
Chromium	25.1	1 00	mg/kg	20.02	7.03	90.2	75-125			
Cobalt	49.9	1.00	mg/kg	50 20	5.65	88 2	75-125			
Copper	28.6	1.00	mg/kg	24 95	5.78	91.3	75-125			
Lead	44.8	0.500	mg/kg	50.20	1 62	86.1	75-125		··	
Molybdenum	44.7	1.00	mg/kg	50.00	ND	89.4	75-125			
Nickel	51 8	2.00	mg/kg	50 10	7.68	88.1	75-125			
Selenium	177	1.00	rng/kg	201.6	0.337	87.5	75-125			
Silver	4.50	1.00	mg/kg	5.020	ND	89.7	75-125			
Thallium	167	1.00	mg/kg	202.0	ND	82.6	75-125			~
Vanadium	67.0	1.00	mg/kg	50.30	23 8	85.8	75-125			
Zinc	73.8	5.00	mg/kg	50.10	31.8	83.8	75-125			
Matrix Spike Dup Source: 7060275										
Antimony	47.1	2.50	mg/kg	50.30	2.45	88.8	60-140	0.528	30	
Arsenic	193	1.00	mg/kg	200.4	1.45	95.5	75-125	1.18	30	
Barium	260	1 00	mg/kg	199.5	76.3	92.0	75-125	0.618	30	
Beryllium	3.71	1 00	mg/kg	5.020	ND	73.9	75-125	0.787	30	
Cadmium	5 69	1.00	mg/kg	5.010	1.25	88.7	75-125	1.97	30	
Chromium	26 0	1 00	mg/kg	20 02	7.03	94.5	75-125	4.72	30	
Cobalt	50.5	1.00	mg/kg	50 20	5 65	89.4	75-125	1 36	30	•••
Copper	29.4	1.00	mg/kg	24.95	5 78	94.8	75-125	3.72	30	
.ead	45.3	0.500	mg/kg	50.20	1.62	87.0	75-125	1 05	30	
Molybdenum	45.2	1.00	mg/kg	50 00	ND	90.5	75-125	1.23	30	
Vickel	52.1	2.00	mg/kg	50.10	7.68	88.7	75-125	0 599	30	
Selenium	179	1.00	mg/kg	201 6	0.337	88.6	75-125	1.19	30	
Silver	4.51	1.00	mg/kg	5 020	ND	89.9	75-125	0.162	30	
Thallium	169	1.00	mg/kg	202.0	ND	83.5	75-125	1 08	30	
Vanadium	68 8	1.00	mg/kg	50.30	23 8	89.4	75-125	4 13	30	
inc	75.1	5 00	mg/kg	50.10	31.8	86.4	75-125	3.03	30	
Batch BG70210 - EPA 7471A										
Blank Prepared: 07/02/07 Analy	/zed: 07/03/07	· 7							<del></del>	
Mercury	ND	0.100	mg/kg							
.CS Prepared: 07/02/07 Analyze		0.100						· <del>-</del> ~ —·		
Mercury	0.871	0 100	rng/kg	0.8333		105	80-120			
1atrix Spike Source: 7060275-12	Prepared: 07/02/	07 Analyzed: (								
fercury	0.869	0.100	mg/kg	0 8333	0 0259	101	70-130			



#### **Certificate of Analysis**

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Clean Harbors Environmental Service

2500 E. Victoria Street Compton, CA 90220 File #:73972

Report Date: 07/06/07 Submitted: 06/29/07

PLS Report No.: 7060278

Attn: Mr. Oscar Perez

Phone: (310) 764-5851

FAX:(310) 764-5863

Project: Air Liquide

			Qual	ity Contr	ol Data	3					
Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG70210 - I	EPA 7471A	<del></del>		,	<del></del>			<del></del>	·	<del></del>	
Matrix Spike Dup	Source: 7060275	-12 Prepared: 07/	02/07 Analyz	ed: 07/03/0	7						
Mercury	eu	0.916	0.100	mg/kg	0.8333	0.0259	107	70-130	5 42	30	

#### **Notes and Definitions**

NA Not Applicable

Analyte NOT DETECTED at or above the detection limit

NR Not Reported

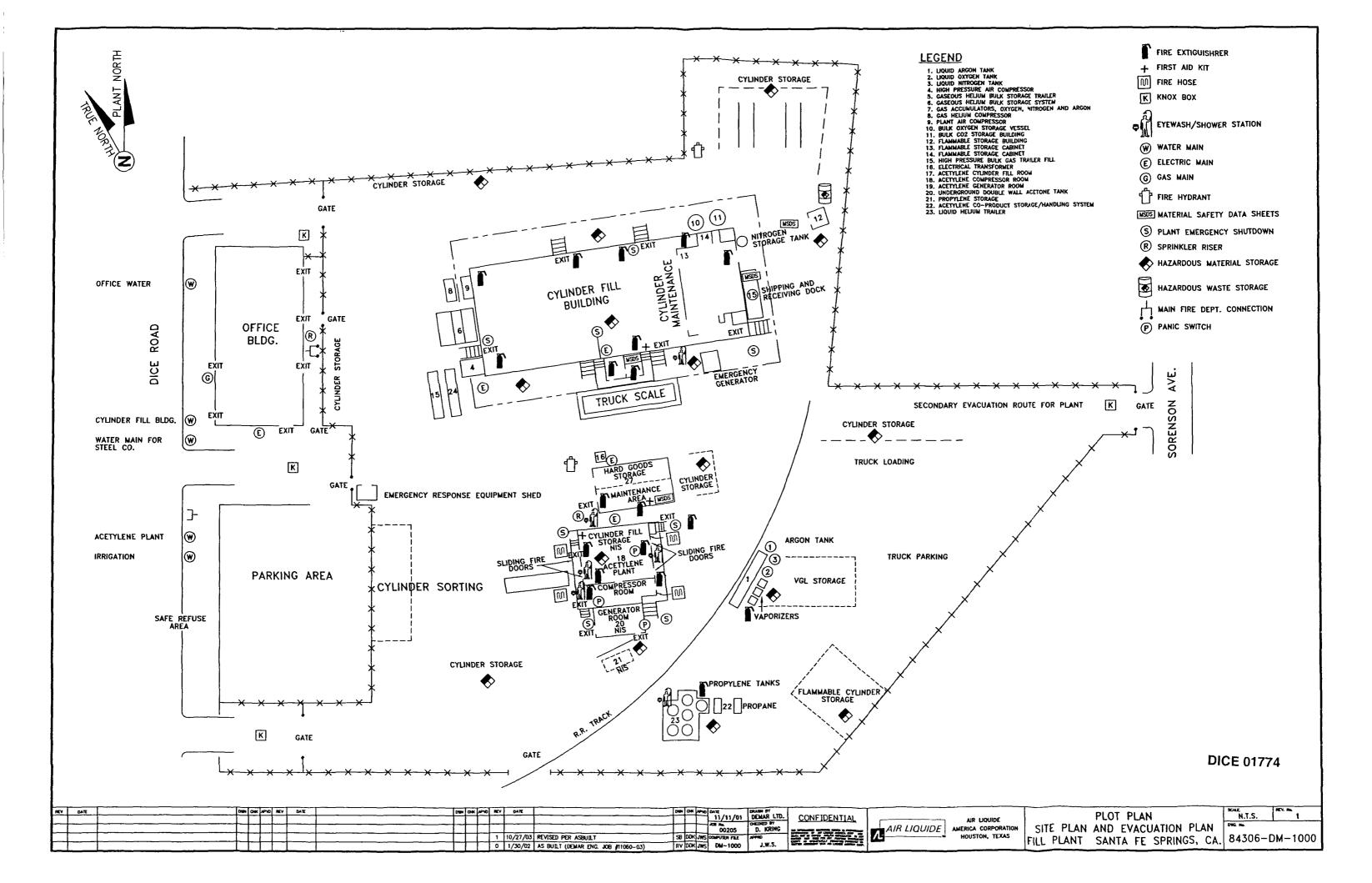
ND

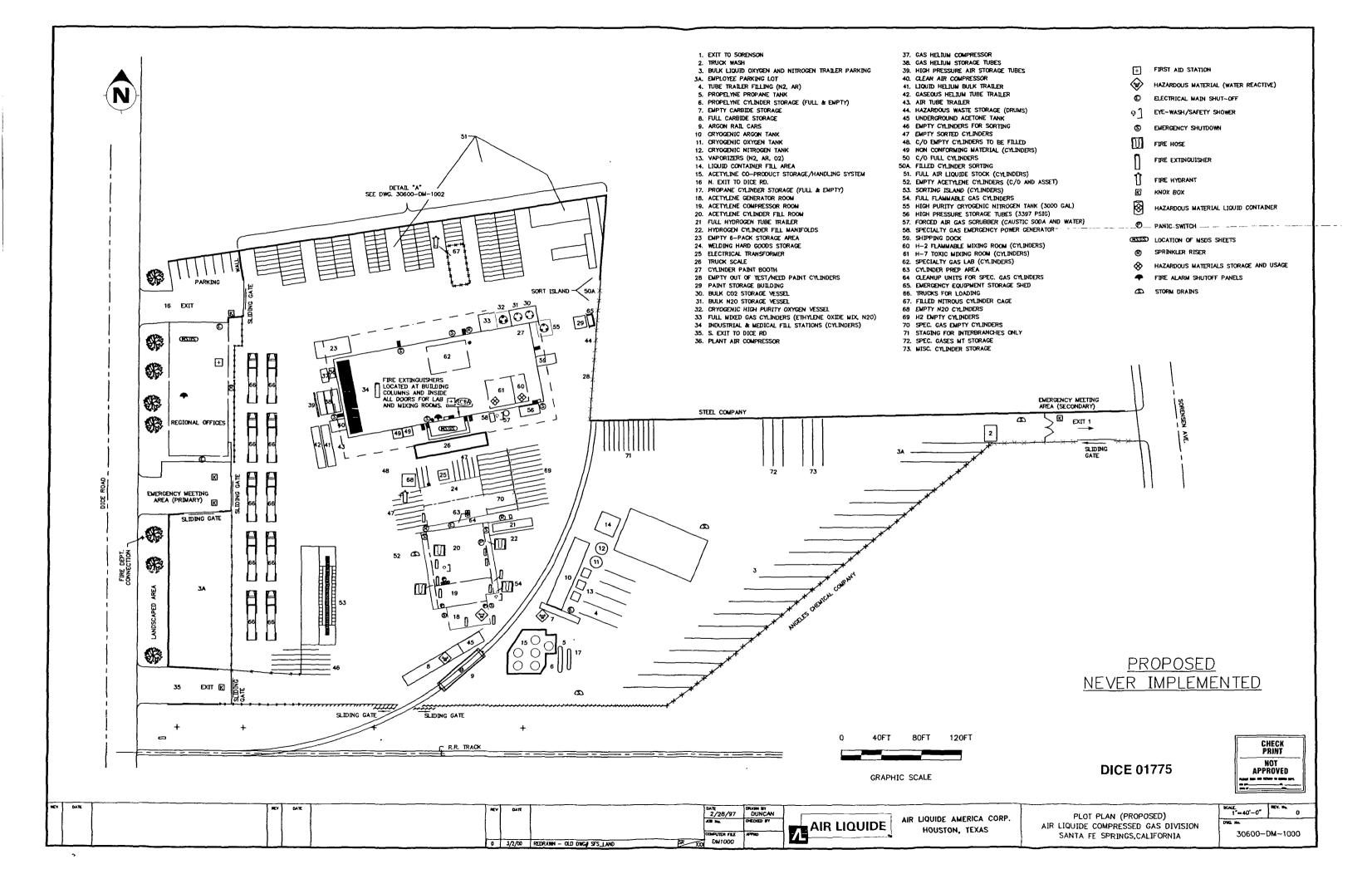
MDL Method Detection Limit

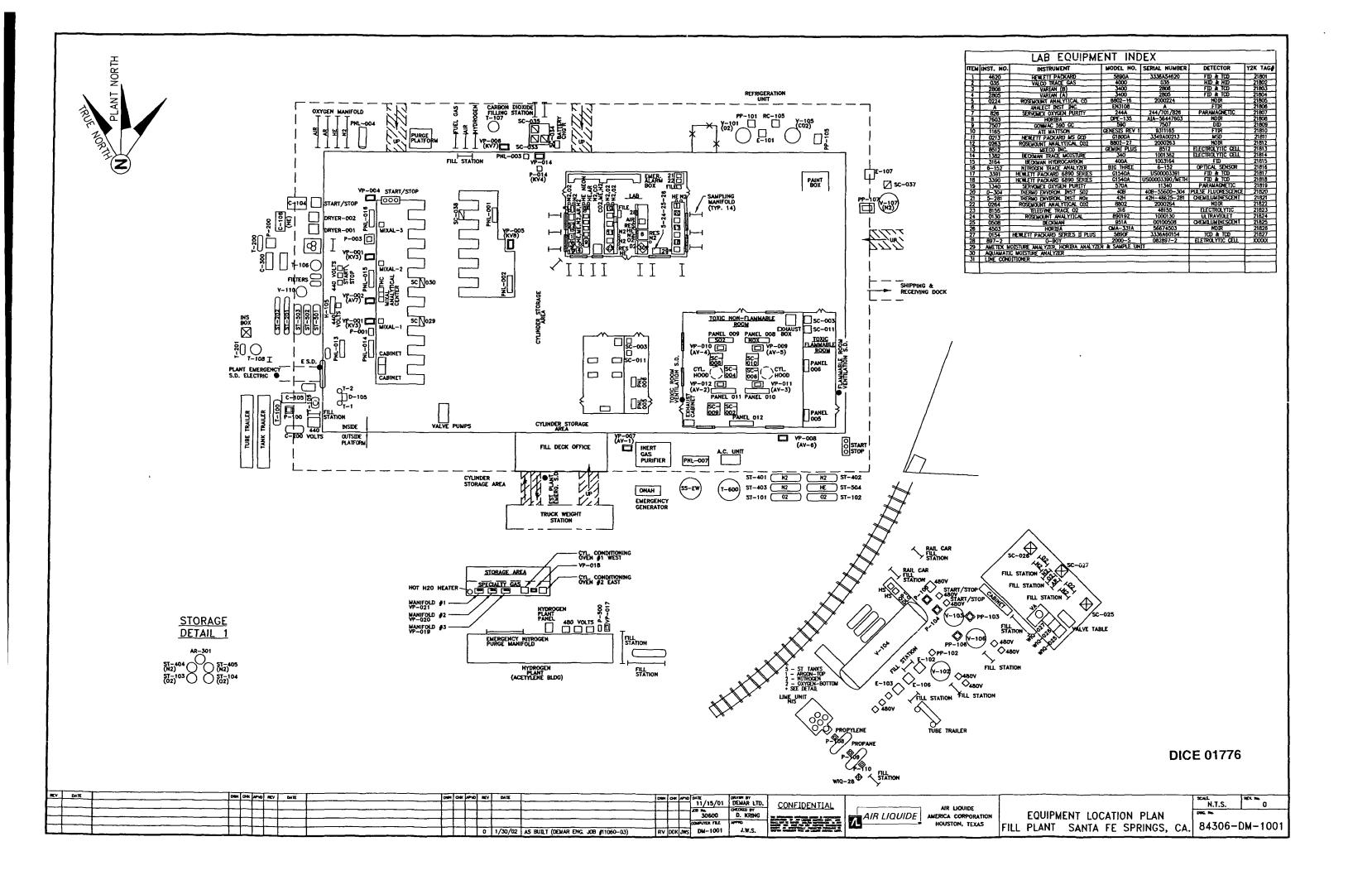
PQL (RL) Practical Quantitation Limit (RL)
Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

	<b>⊿</b> □ P(	OSITI	VE	CHAIN	OF CUSTO	DY AN	ID A	NALYS	SIS R	EQU	ST	DATE:	6/2	3/0	PAG	EOF
		B SERV	/ICE	781 East Washington BI (213) 745-5312 FAX (2	vd., Los Angeles, C 213) 745-6372	:A 90021		L(	OG BOO	K NO _		FILE	10	, L	AB NO.	106.0278
	CLIENT NAME: Cle	an Hour	bors	Project Na	ame/No. Air	Ligit	ude	2				P.O. N	10.		- 1	URBILL NO:
	ADDRESS: 2500	East	Vic	toria Ke	ancho Do	ninel	د جد		AN	ALYSES	REQUE	STED:			ì	COOLER TEMP:
	PROJECT MANAGER:			PHONE NO: #	455 229-2144 1	AX NO:									L	EMARKS:
-	SAMPLER NAME: M				(Signature)	1	rele	·								iemanno.
		,		y; 1 = 24 Hour; 2 = 48 Ho	our, (Etc. N) NORI	VAL.				1						
	CONTAINER TYPES:	B = Brass, E =	Encore G	= Glass, P = Plastic, V =	VOA Vial, O = Othe	er:										
	UST Project: Y N	- Global ID#							] \	7 4						Mar a constraint
	SAMPLE DATE ID SAMPLED	TIME SAMPLED	SAN	IPLE DESCRIPTION	WATER SOIL SU	JDGE OTHER	TAT	CONTAIN	R PE							AMPLE CONDITION/ ONTAINER/COMMENTS:
1	AL16/29	900a					N	4026	- >	$\langle   \times \rangle$						
2	AL26/29	9069						Yoz C	7-1	$\mathbb{X}$						
3	AL36/29	9109						402 C	<del>,</del> ×	$\boxtimes$						
4	ALY 6/29	9149						400	<del>-</del> \	1						
5	ALS 6/29	9209						402	5 /							
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	Reinquished By: Wonature and	2000		Land	re and Printe Harre)				79/4		0:10	SAM: 1. Sa		OSITIOI turned to		YES NO
	Relinquished By, (Signature and	L. James		Jeffeld 2	ire and Printed Name) ire and Printed Name)			<i>P</i>	NMM	Time.	12:00	2. Sa	imples w Iditional s	ill not be storage til	stored or me is req	ver 30 days, unless juested.
	SPECIAL INSTRUCTIO			necessary (signatu	ore and Printed Name)			Da	ι <del>υ</del> '	ıme		3. St	orage tim	e reques	sted:	days
	GEECIAL MOTRUCTIO											Ву _				Date







## State of Delaware Office of the Secretary of State

I, WILLIAM T. QUILLEN, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP OF AL AMERICA HOLDINGS, INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, MERGING LIQUID AIR CORPORATION A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, PURSUANT TO SECTION 253 OF THE GENERAL CORPORATION LAW OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TENTH DAY OF JANUARY, A.D. 1994, AT 1 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CORPORATION SHALL BE GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE APPROPRIATE COUNTY RECORDER OF DEEDS FOR RECORDING.

**DICE 01777** 



William J. Juller

William T. Quillen, Secretary of State

**AUTHENTICATION:** 

\*4235404

DATE:

# CERTIFICATE OF OWNERSHIP AND MERGER MERGING LIQUID AIR CORPORATION INTO AL AMERICA HOLDINGS, INC.

(Pursuant to Section 253 of the General Corporation Law of the State of Delaware)

AL America Holdings, Inc., a corporation organized and existing under the laws of the State of Delaware (the "Corporation"), DOES HEREBY CERTIFY:

FIRST: That the Corporation was incorporated on the 2nd day of July, 1987, pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all of the outstanding shares of each class of stock of Liquid Air Corporation, a corporation incorporated on the 9th day of January, 1970, pursuant to the General Corporation Law of the State of Delaware.

THIRD: That the Corporation, by the following resolutions of its Board of Directors, duly adopted by the unanimous written consent of the directors dated December 2, 1993 and filed with the minutes of the Board of Directors, determined to merge into itself its wholly-owned subsidiary, Liquid Air Corporation, on the conditions set forth in such resolutions:

RESOLVED, that Liquid Air Corporation, a Delaware corporation, all of the issued and outstanding capital stock of which is owned by this Corporation, be merged into this Corporation, in accordance with the applicable provisions of the laws of the State of Delaware, and that this Corporation assume all of the liabilities and obligations of said Liquid Air Corporation upon such merger; and further

RESOLVED, that the merger shall not involve the issuance of any additional shares of capital stock of the Corporation and that there shall be no change in the Certificate of Incorporation of the Corporation as the surviving corporation as a result of the merger; and further

RESOLVED, that the merger shall become effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of the State of Delaware, but shall, for accounting and all other purposes, be deemed to have become effective as of 12:01 a.m. on January 1, 1994; and further

-2-

RESOLVED, that the proper officers of the Corporation be, and they hereby are, authorized and directed to make, execute and file such agreements, certificates, consents and other papers as may, in their judgment, be necessary or desirable in order to effectuate the merger, and that, in furtherance of this authorization, the President or any Vice President and the Secretary or any Assistant Secretary are hereby authorized to make, execute and file a Certificate of Ownership and Merger as required by the laws of the State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this certificate to be signed by Robert D. Cadieux, its President, and attested by John N. Baird, its Secretary, this 27 day of December, 1993.

AL AMERICA HOLDINGS, INC.

By:

Robert D. Cadieux, President

ATTEST:

Bv:

John N. Baird, Secretary